These are included in the statements which purport to deal with the number of pupils in boys' schools. In other respects, this chapter deals only with schools for boys and boys in secondary schools.

Secondary Schools.

73. The total number of secondary schools declined from 1,464 to 1,456, General statistics or by 8, in the year under review. The number of Middle English schools of English and Vernacular schools increased by 2 and that of Vernacular schools remained stationary, that of High schools increased by 2, and that of for boys. Middle Vernacular schools declined by 10. The decline in the number of Middle Vernacular schools is the inevitable outcome of the small value which attaches to a purely vernacular education. In years gone by a Middle Vernacular pass qualified a student for admission to Medical and Survey schools and to the Mukhtiyarship examination. This is no longer the case. The steady decline in the popularity of these schools must, in my opinion, culminate in their abolition as a separate class of schools. As indicated in the next chapter, there is only one examination held in this Province. that is to say, that held at the end of the middle vernacular course. It is however termed the "Primary Examination." It would be consistent therefore to consider all Middle Vernacular schools as Primary schools, as in the Bombay Presidency. This is a subject which is engaging my attention, and I shall, if necessary, make a reference to Government in regard to it.

74. In paragraph 316 of the Fourth Quinquennial Review the cheapness Cost of English of an English Secondary school is commented upon. It is stated that schools. the cost of such a school in the year 1901-1902 was Rs. 191 a month. This calculation evidently proceeds on the assumption that all Middle English schools should be classed as Secondary English schools. It has to be borne in mind however that no subjects are taught through the medium of English in these schools, but that English is taught merely as a language in the four top classes. These schools are really therefore Vernacular to a much larger extent than they are English. The monthly cost of a High school in the year under review was Rs. 362, and that of a Middle English school Rs. 67. On the other hand, if both these classes of schools be considered as English Secondary schools, as in the Fourth Quinquennial Review, the cost was Rs. 178,

as against Rs. 191 in the last year of the last quinquennial period.

75. If we reckon Middle English schools as Secondary English schools, Management of we find that of 1,029 such schools, 73 were under public, and 956 under English Secondary private, management. Of the 73 schools under public management, Governschools. ment itself only maintained 41, the rest being managed by the District Boards and Municipal Committees. The bulk of the schools maintained by Government are High schools, in pursuance of the established policy that there

should be one Government High school in each district.

76. Of the 427 Middle Vernacular schools, 121 were under public, and Management of 306 under private, management. Of the 121 schools under public manage. Middle Vernacular ment Government itself however maintained only 17.

77. Of 956 privately managed English Secondary schools, 655 were Aid to privately aided, and 301 unaided. The proportion of aided schools was much greater in managed English respect of Middle Vernacular schools. Thus, of 306 such schools, 263 were and Vernacular aided and 43 only unaided. The inference is obvious. People want schools schools. where English is taught, and therefore contribute readily enough towards that form of education.

Statistics of Pupils.

78. Pupils in secondary schools increased from 145,094 to 147,516, or by Pupils in Secondary schools, 65,385 were in the dary schools and in the secondary schools, 65,385 were in the dary schools and in the secondary stage secondary, and 82,131 in the primary, stage of education. The primary of education. stage pupils are included in the statistics given in the chapter on Primary Education and are not taken into account in this paragraph. Of the 65,385 pupils in the secondary stage of education, 61,254 were in English, and 4,131 in Vernacular, Secondary schools. Again, of the 61,254 pupils in the secondary stage in English schools, 33,805 were in the high, and 27,449 in the middle, stage of instruction. One pupil was in the secondary stage of instruction in an English Secondary school to every 63 pupils of a school-going age, as against 1 to every 71 at the close of the last quinquennial period. On the

students take up as their subjects (1) Modern English, (2) Mathematics, (3) Drawing and practical geometry, mensuration, elementary engineering and surveying, and (4) Manual training. Those who are successful pass on to either a technical school affiliated to the Sibpur Engineering College or to the Apprentice Department of that college. Seven out of the ten High schools in which this system prevails are now in the Province of Eastern Bengal and Assam; but the Principal of the Sibpur Engineering College, in accordance with the wishes of the Lieutenant-Governor of that Province, still supervises the working of these classes. On the whole the classes have not been a success, especially in the schools which now remain in Bengal. These classes require very careful fostering, and in present circumstances they do not receive the attention which they require. If however a special officer is appointed, as suggested in the chapter on Professional and Technical Education, to supervise technical and industrial schools, these classes will come under more effective control and there should be a decided improvement.

85. In accordance with the scheme referred to in the last paragraph, boys Commercial classes who wish to enter a commercial career may, at certain selected High schools, in High schools. instead of continuing the ordinary literary course up to the end of their school life, specialise during their last two years at school. The course has recently been revised, and comprises at present the following subjects:-

LEW OF TROUBLE LABOUR. B. MARY

Mathematics,
 Modern English,

(3) History and geography, the the many land in hormson land and

(4) Drawing and practical geometry, and quality and quality and a party and a second part

(5) A vernacular.

These classes have hitherto not proved successful. I have lately placed them under the general supervision of the Professor in charge of the Presidency College classes, and it is hoped that this measure may tend to increase their efficiency. As explained however in the chapter on Professional and Technical Education, the classes at the Presidency College, up to which they lead, are themselves in the experimental stage.

86. At certain selected High schools provision has similarly been made Agricultural for specialisation as regards agriculture during the last two years of the classes in High school course; practical training being given at the neighbouring experimental farms which are under the control of the Director of Agriculture. These classes have hitherto not been under expert supervision, and it is impossible therefore to say what success has attended them. The Director of Agriculture has kindly consented to supervise them in future, and the question of the instruction to be imparted at them is under his present consideration.

Examinations.

I have in the last chapter commented on the results of the Entrance The Entrance examination. The percentage of success for the year under review was 26.4 examination and only. At the Middle School examination, out of 10,248 candidates, 7,761, or the Middle School 75.7 per cent., passed. The popularity of this examination has been enhanced Primary) by the decision to grant leaving certificates as a result of success at it. As examination, indicated in the next chapter, no public examinations are held at the upper and lower primary stages, and the figures given in General Table VI against these examinations represent merely the results of class examinations.

CHAPTER V.

PRIMARY EDUCATION FOR INDIAN BOYS.

Scope of the Chapter.

88. As stated in the Fourth Quinquennial Review, primary education may Primary schools be regarded in either of two aspects, in the first place as the education given in and primary primary schools, and in the second place as the primary stage of instruction, departments of Secondary schools. in whatever grade of institution that instruction may be received. This chapter is generally concerned with primary schools only; but, when the

other hand, 1 pupil was in the secondary stage of instruction in Vernacular schools to every 949, as against 1 to every 830 at the close of the last quinquennial period. The falling off in the latter case is due to the unpopularity of Vernacular schools noticed above.

Expenditure.

General statistics of expenditure.

79. There was very little change as regards either the expenditure on Secondary schools for boys or the sources from which that expenditure was derived. The total expenditure increased from Rs. 23,90,040 to Rs. 24,29,130. Of the last-named sum, Rs. 4,43,970 were contributed from public, and Rs. 19.85,160 from private, funds.

Cost of educating a boy.

Rs. 19,85,160 from private, funds.

80. The average annual cost of educating a boy in a High, Middle English and Middle Vernacular, School respectively during the year under review was Rs. 22, Rs. 12, and Rs. 9.

Subjects and methods of teaching.

Revision of the vernacular scheme of education as touching the lower classes of High schools. 81. I deal in the next chapter with the question of the revision of the vernacular scheme of education which was sanctioned by Government in 1901. As there stated, that scheme has resulted in comparatively empty lower classes in Government and aided High schools. Parents are anxious enough to send their boys to these schools as soon as they are fit for entry into the classes where the medium of instruction is English, because in general the teaching is better at such schools; but they not infrequently get them educated up to that stage in privately managed schools which are not subject to the vernacular system of education. It is hoped that the revision of the courses which is now to be taken in hand will result in modifying this anomalous state of affairs.

The teaching of English in the lower classes of High schools. 82. There is another reason for the preference for the teaching as given in privately managed schools. This is because in such schools more importance is attached to the teaching of English in the lower classes. It is true that in a Government or aided High school English is taught as a language in four classes below the fourth class, in which teaching through the medium of English begins. The transition from the fifth to the fourth class is however too abrupt, and it is long before the student begins to have any idea of what is being taught him through the medium of a foreign tongue. In fact, I am afraid that the teaching through the medium of English in this class is often a mere sham. As indicated in the next chapter, a revision of the courses of studies in the classes below the high school stage is under consideration, and this question will then be carefully considered. Possibly some system of oral instruction in English in the lower classes will be suggested, which will not at the same time cause undue interference with the main course of instruction, which is rightly given through the medium of the vernacular.

The teaching of English in the four top classes of High schools.

83. I comment in the chapter on Training Colleges and Schools on the urgent need for the training of teachers for High and other secondary schools, and allude to the steps that are being taken for the opening of training colleges for such teachers. The wonder seems to me to be not that so few students pass the Entrance examination as in the present year, but that so many are usually able to do so. I have in the last paragraph observed that it takes a boy a long time after entry into class IV of a High school to understand at all the instruction given through the medium of English. I fear that in a similar way boys who have passed the Entrance examination often have so little real knowledge of English as to make it impossible for them to understand their college lecturers when they first join a college. This is a complaint which I have frequently heard made. If, however, as may be hoped, the proposed Training Colleges are a success, there should before long be a great improvement in this respect.

Special instruction at selected Government High schools.

Industrial classes in High schools.

84. Under a scheme sanctioned by the Government of Bengal in the year 1900, boys who wish to enter an industrial career may, at certain selected High schools, instead of following the ordinary literary course up to the end of their school life, specialise during their last two years at school. Such

courses of instruction in primary schools are discussed, the remarks made apply generally in regard to the lower classes of secondary schools in which

primary instruction is imparted.

Primary schools for boys and girls.

89. There were 33,665 primary schools for boys and 2,843 primary schools for girls in the year under review. Over 24.7 per cent. of the male, and nearly 2.7 per cent. of the female, population of a school-going age are in the primary stage of education. Following the procedure adopted in the Fourth Quinquennial Review, I have relegated the subject of the primary advention of riple to the chapter on Formula Education, on the ground that it education of girls to the chapter on Female Education, on the ground that it would mislead and confuse to amalgamate statistics for boys and girls. Owing however to the system of co-education which prevails in this Province, the figures for the pupils in boys' schools include a certain percentage of girls studying in such schools. The total number of such girls in the year under review was 43,086. This number is comparatively small and is included in statements which purport to deal with the number of pupils in boys' schools.

Primary Schools.

General statistics.

ont of gar 90. The number of public primary schools for boys rose from 33,298 to 33,665 and the pupils attending them from 909,971 to 929,163, or by 1.1 per cent. and 2.1 per cent., respectively. In the Government Resolution on last year's annual report, it was remarked, in connection with the decrease that had occurred in that year in the number of primary schools and pupils attending them, that the policy, introduced within the last few years, of insisting on a certain degree of efficiency before putting a school on the aided or stipendiary list, had no doubt resulted in a considerable decrease in the number of schools and of boys attending them. Later on in this chapter I discuss at some length removeable causes which, I think, are operating to retard the progress of primary education both in primary schools and in the primary departments of secondary schools. I think it is a sign of the vitality of these schools that, notwithstanding our insistence on a higher standard of efficiency and the existence of the drawbacks to which I allude, their number and the number of purils attending them now show a tender their number and the number of pupils attending them now show a tendency to rise. The increase in schools and pupils is generally shared by all Divisions, except the Burdwan and Chota Nagpur Divisions. In the former the loss of schools amounted to 2.6 per cent. and that of pupils to 1.1 per cent. In the latter the number of schools decreased by 1.7 per cent., while that of pupils attending them increased by 2 per cent.

91. The bulk of pupils do not study beyond the primary stage and are taught in primary schools. Of the 33,665 primary schools of this Province, 2.867 are upper primary, and 30.798 lower primary, schools. Both classes of

Upper and lower primary schools.

2,867 are upper primary, and 30,798 lower primary, schools. Both classes of schools have increased, and with the increase in the number of schools, there has been a corresponding increase in the number of pupils attending them. Thus, upper primary schools have increased from 2,747 to 2,867 and the number of pupils attending them from 122,624 to 133,639; while lower primary schools have increased from 30,551 to 30,798 and the number of pupils attending them from 787,347 to 795,524.

Schools according to management.

92. Of the 33,665 primary schools which existed in the year under review, 204, or 6 per cent., were under public management. Of the 33,461 privately managed schools, 26,760 were aided by Government and 6,701 were unaided.

Statistics of pupils in the primary stage of instruction, whether in Primary or Secondary Schools.

General statistics.

93. As explained above the statistics of pupils may be regarded in either of two ways; firstly, with respect to pupils in primary schools and, secondly, with reference to pupils in the primary stage of instruction whether in primary or secondary schools. The number of pupils in the primary stage in primary and secondary schools in the year under review was 1,011,290, as against 1,001,324 in the previous year. This figure gives the most correct view of the general condition of public primary instruction. If the number of girls studying in boys' schools is excluded, 1 in every 4 boys of a schoolgoing age is in the primary stage of instruction.

94. In the year under review 246 boys per thousand of a school-going age Proportion of boys were in the primary stage of instruction in public schools. The figures for under instruction male literacy, estimated according to the present population, works out however to 107 per thousand only. As explained in the Fourth Quinquennial Review, the rudimentary character of the instruction given in many of the Report village schools may have some bearing on this circumstance. Bengal village schools may have some bearing on this circumstance.

Finance.

95. The total expenditure on boys' primary schools shews but a slight General statistics. increase, the figures being Rs. 23,63,767 for 1904-1905 and Rs. 24,09,456 for 1905-1906. The last-named sum does not however take into consideration the expenditure incurred on the construction of buildings for primary schools

referred to in the next paragraph.

96. A large grant for primary education was made in the year under review The grant of by the Government of India. Out of this grant Rs. 5,03,598 were assigned Rs. 6,67,000 by the Government of India. towards the construction of suitable buildings for primary schools. Further for primary sums, amounting in all to Rs. 75,381, were expended on various improvements connected with primary education, the chief of which was the development of indigenous Muhammadan schools (maktabs). A balance of Rs. 88,021 was not utilised during the year; but this sum will be available for expenditure

in future years.

97. Of the total expenditure of Rs. 24,09,456 on primary schools for boys, Expenditure from Rs. 8,45,663 were derived from public, and Rs. 15,63,793 from private, public and private sources. Of the expenditure from public funds, Rs. 1,54,257 were derived from Provincial Revenues, Rs. 6,34,414 from District Funds, and Rs. 56,992 from Municipal Funds. The bulk of the money allotted to aided primary schools is Distribution of given by District Boards. Thus, of Rs. 7,98,048 distributed by way of grants-grants by Governin-aid to these schools, Rs. 1,33,976 were contributed by Provincial Revenues, ment and by District Boards and Rs. 55,650 by Municipal Funds. Rs. 6,08,413 by District Funds, and Rs. 55,659 by Municipal Funds.

98. A rule still exists that District Boards are required to spend not Rules regarding less than 10 per cent. of their ordinary income on primary education. In-District Board and asmuch bowever as the amounts which District Boards must spend on education have recently been fixed by orders of Government, the question whether this rule should be retained or be replaced by some other rule is now under consideration. Municipal Committees are required to spend 3.2 per cent. of their income on primary education, and, until this condition is fulfilled, they may not devote their funds to the aid of secondary schools.

99. Reporting officers are unanimous that the present system of payment of Grant-in-aid rules.

99. Reporting officers are unanimous that the present system of payment of Grant-Instant rules, teachers of primary schools, partly by a subsistence allowance and partly by subsequent annual lump payments, is working as well as it can be expected to do in present circumstances. The system will however work much more effectively when the inspecting staff is strengthened.

100. The average cost of educating a pupil in a boys' primary school Cost of educating a mounted, as in the previous year, to Rs. 2-9 a year.

1 Indian primary schools has often Cost of a school.

101. The extraordinary cheapness of Indian primary schools has often Cost of a school. been made the subject of remark. The average cost of a primary school in this Province for the year 1905-1906 was Rs. 6 a month, while the average cost of an unaided primary school was Rs. 3 a month. It is essential to bear the cheapness of these schools in mind when treating of problems concerning them and the teachers employed in them.

Primary Education in the Darjeeling Hills.

102. At an important conference of officials and representatives of the Conference at planting community held in Darjeeling after the close of the year, the question Darjeeling. of extending elementary education among the hill population was discussed, and it was decided that steps should be taken in that direction; the understanding being that Government should give liberal grants-in-aid, and that tea garden managers on the other hand should provide the sites and the school buildings and keep the latter in repair. The matter has since been discussed by the Darjeeling Planters' Association, and the conclusions arrived at by the conference have been endorsed. Steps are therefore being taken to provide

for the training of teachers for the proposed new schools, and it is hoped that the current year will see a commencement of a forward movement.

Night and Continuation schools.

Night schools.

103. As will appear from the Fourth Quinquennial Review the night school system has never had much success in this country, and the number of schools and pupils in the three Presidencies (Madras, Bombay and Bengal) in which the system referred to has been tried, has gradually been declining. The decline still continues in Bengal, the number of schools and pupils having fallen from 784 and 16,081 to 773 and 15,873, respectively. Circumstances are altogether against the system in India. Owing to climatic conditions the very people who would derive benefit from these schools, if they were able to attend them, are fatigued at the end of a day's work, and have no inclination to study at night. Then there is the difficulty about lighting. The ordinary Indian country lamp gives a very bad light, and it is doubtful whether it is wise to encourage schools of this kind, except in big towns, where proper lighting arrangements can be made.

104. A real attempt is, however, being made in the Presidency Division, in which the town population is large, to develop continuation schools with classes held either by day or night, the subjects to be taught being chiefly book-keeping, correspondence, mathematics and science. The number of such schools increased during the year under review from 19 to 31, and I have recently sanctioned the opening of 24 more schools of this type. I have at the same time circulated copies of the correspondence on this subject to the Commissioner of the Presidency Division and the District Officers of the Division

soliciting their co-operation in working out this important experiment.

School Buildings.

105. Bengal has hitherto had the unenviable reputation of being the most backward of all the Provinces in the matter of school buildings. Substantial progress was however made in the year under review, the Local Government assigning a sum of Rs. 5,03,598 towards the construction of suitable buildings on condition that a reasonable proportion should be contributed from local sources. During the current year and in future years very little expenditure in this direction will, I anticipate, be possible owing to the urgent calls for money in numerous other directions; nor am I personally of opinion that further money should be expended in this way. Government has set an example in the matter, and I consider that the most advantageous procedure to follow in future will be to promise specially favourable grants in-aid where the residents of any locality are prepared to supply the funds necessary for building a school-house and to undertake to keep it in repair. I propose to work out a scheme on these lines as soon as practicable and to submit it for the consideration of Government.

Subjects and the methods of teaching.

General scope of the changes proposed. 106. As stated in the chapter on "Educational Conferences," much progress has been made with the revision of the vernacular scheme of education, as sanctioned by Government in the year 1901, in so far as it concerns lower primary schools. The system, as hitherto in force, is one of the causes to which I have alluded above as operating to retard the progress of primary education both in primary schools and in the primary departments of secondary schools. The effect of the system has been particularly noticeable in high schools. The four highest classes of these schools, in which instruction is imparted through the medium of English, are generally crowded; whereas the attendance in the lower classes, in which the vernacular system of education is in force, is generally scanty. What happens not infrequently is this. Boys study in their early years in private schools, in which the vernacular system of education is not in force, and then join the higher classes of a high school. This is one of the commonest ways in which the scheme is evaded.

Continuation schools.

107. The first measure to be taken is to produce proper text-books. Simplification of Loud complaints have been made that the present text-books are not written in the text books and courses of study. simple language, commonly used by the people, but in an unfamiliar literary style. The subject-matter of these books also is not free from criticism. Steps are accordingly being taken to bring out, at the expense of Government, text-books in which, it is hoped, these defects will not be found. This does not of course mean that Government intends to monopolise the production of text-books. It will merely give the lead by showing the kind of books which are required; and if private enterprise can produce equally good or better books these will be accepted. The next point is that the existing courses, as far as lower primary schools in rural areas are concerned, are too long, too advanced and too diversified, and that for all classes of lower primary schools the present syllabus presents too many and too difficult subjects. As regards lower primary schools in rural areas, the compulsory course according to the revised syllabus will extend to three hours daily only; but instruction will be given in certain supplementary subjects, of which those who wish to do so may avail themselves. In lower primary schools in other than purely rural areas, the combined compulsory and optional subjects will constitute the prescribed course.

108. At present there are three Infant classes in a lower primary school, Reduction in the in addition to the two classes which read the courses of study prescribed for number of classes. standards I and II. It is considered that two Infant classes will be quite sufficient. Instead therefore of three Infant classes, as heretofore, for the ages of 5-6, 6-7, and 7-8, there will be two classes, the first for infants aged from 5-7 years and the second for those aged 6—8. The remaining two classes will, as heretofore, be termed standards I and II and be for children aged about 8 and 9, respectively. This reduction of the number of classes is not a matter of small importance in view of the fact that in the vast majority of these schools there is only one teacher. Even thus, each teacher will have to look after four classes; and it will more than tax his strength to do this even

moderately well.

A brief account of the revised Syllabus.

109. In the preparation of the revised syllabus the instructions, as laid down Introductory by the Government of India in paragraphs 20, 21, and 25 of their Resolution, remarks entitled "Indian Education Policy" of the 11th March 1904, have been carefully borne in mind. Full advantage has also been taken of that excellent publication entitled "Suggestions for the consideration of teachers and others concerned in the work of public elementary schools" which was issued by the Board of Education, London, in the year 1905. The syllabus opens with an Introduction on the function of education as regards the formation of character. Two typical paragraphs of this introduction are quoted in the chapter on ter. Two typical paragraphs of this introduction are quoted in the chapter on Physical and Moral Training.

110. Much attention is paid to observation and expression lessons. The Observation and 110.

former will take the place of the subjects which are set down in the present syllabus under the names of Botany, Natural History, Agriculture, Physics and Chemistry. The existing science primer, which condenses these subjects into a few pages, will be abolished; for it is believed that the result of this system has been rote teaching and mechanical learning, that is to say, teaching from treatises about objects and not from objects. Children of this age are incapable of learning science, for generalising from facts belongs to a later stage of mental discipline, and instruction with this aim can only be given if the power of intelligent and accurate observation has been first developed. The cultivation of this power, which is the chief aim of the revised syllabus, is impossible, unless children are taught to observe, compare and contrast the objects which are around them. This they can never do so long as they merely read about objects. The existence of the Science Primer and the use to which it has been put has defeated the whole object with which the vernacular scheme of education was introduced. The object was to discourage rote teaching and to develop faculties, other than those which are exercised by reading and learning by heart; but the faculty of observation is not developed by reading unintelligently and committing to memory for the sake of examinations pseudo-scientific treatises. The books have been bad and the result of teach-

ing from them so disastrous that numerous schools have declined to teach the

syllabus and have thus cut themselves off from the Government system; while many others, though nominally following the syllabus, have really ignored that part of it which was concerned with the so-called teaching of Science. In connection with the study of plant life, which will be one of the main features of the Nature observation work, especially in rural schools, an extract is given in the syllabus from Mr. Sly's valuable "Note on school gardens." In that note it is stated that the "real object of a school garden should be to supply materials for object lessons in which pupils can study the growth of plants," and that "the garden should be one, where 'Nature is studied in its relations to the child, from the child's standpoint by the teacher with the children." It is true that the new system will make great demands upon the teachers. Lack of knowledge on the part of teachers, however, cannot be made good by putting into their hands a book dealing in a condensed manner with scientific subjects. To do this is to abandon the object which we have now set before us. Want of knowledge on the part of teachers can only be made good by careful and systematic training, and, as indicated in the chapter on Training Colleges and Schools, steps are being taken so that gradually all the teachers will come under such training. Meantime, although we must not expect too much from the teachers, we shall, however, have the satisfaction of knowing that the revised syllabus indicates to them the right lines on which to make a beginning.

Other subjects.

Reading.

- 111. I have mentioned the observation and expression lessons first, because they predominate in the infant stages. In standard I reading, writing and arithmetic, with oral composition, drawing, modelling, simple hygiene and elementary drill are added, while in standard II geography is first introduced.
- 112. To illustrate the character of the syllabus under the head of reading, I cannot do better than quote the instructions on the subject for standard I, which runs as follows:—

"The main purpose of teaching to read is to enable the pupils to master printed or written matter for their own information. Silent reading should, therefore, be practised from the first, and the teacher will soon get the children into the way of this, if, to begin with, he gives them short pieces to read and after a little time goes round to the children individually and asks for an account in their own words of what has been read. Such pieces should be full of incident and interest. As regards reading aloud clearness of utterance and fluency should always be kept in view, but it is also essential that children should be taught to read intelligently. The teacher should make the gist of the piece clear before it is read, so that the general meaning may be mastered before it is read out in the class. Without this the reading must be mechanical, because it is unintelligent. It is advisable that the teacher should occasionally read out a passage to the class by way of illustration; but in this case also the class should go through the piece beforehand. The reading material put into the hands of children is of the greatest importance. The Primer should contain nothing which is not written in good language, and in words which will be easily intelligible to all. The arrangement of each piece must be logical, and the language must be good in so far as each sentence must express clearly and straightforwardly the meaning which it is intended to convey. The Primer should contain stories which fall within the range of the children's comprehension and interest; descriptions of the various scenes and episodes of rural life should also be included. Provision should also be made in the Primer for acquainting the children with some of the more impressive stories of English and Indian history. The whole should be written in an easy narrative style. A passage having been prepared beforehand and the difficulties elucidated, the actual reading lesson should be as little as possible interrupted by the teacher, and all long disquisi

Writing, arithmetic, geography, etc.

113. It is unnecessary to say much on the other subjects of the curriculum; but it may be mentioned that in standard II, that is to say, the standard at which the mass of pupils leave school, the object aimed at is to send away the pupils with their intelligence awakened, with a fair knowledge of the three "R's," and with some acquaintance with weights and measures, land measurements, the village accounts and the ordinary land-record documents with which they will be confronted in after-life.

Urban and rural

114. After protracted discussion it has been decided that it is both impracticable and unnecessary to frame separate curricula for urban and rural schools. In rural areas only a short course of studies will be made compulsory, with optional supplementary courses for those who wish to take them; whereas in urban areas all the subjects will be compulsory. Generally speaking,

it is not in respect of the subjects taught, but of the method of teaching these subjects that any distinction is possible in urban and rural areas. The teaching, in order to be effective, must have reference to the environment of the schools and the scholars. The syllabus makes due provision for this, and so will the text-books which are to be written in accordance with it. One of the great advantages to be gained by this decision will be that the duplication of text-books will be obviated. The enormous difficulty of securing suitable text-books is so well known that it is needless to dwell on the advantages of avoiding unnecessary duplication.

115. As soon as the revision of the vernacular scheme of education, as Proposals for the sanctioned by Government in the year 1901, has been carried into effect as future. far as the lower primary school courses are concerned, that is to say, up to standard II, similar steps will be taken as regards the courses in the higher standards (III to VI). A committee has already been appointed by Government to deal with this subject and to submit proposals. When the committee has submitted its report, the public will no doubt be consulted in regard to the proposals made, in the same manner as it was consulted concerning the courses

of study for lower primary schools.

Upper and Lower Primary Examinations.

Another cause which has undoubtedly had a depressing effect on primary education has been the abolition of the public examinations held at the end of the lower primary and upper primary courses. I have no wish to suggest a revival of the examinations as previously held with all their attendant evils. I recognise however that the abolition has had at any rate temporarily a very discouraging effect on primary education. The orders of the Government of India, as contained in paragraph 12 of their Resolution, entitled "Indian Educational Policy," of the 11th March 1904, are that there are to be only two examinations of the 11th March 1904, are that there are to be only two examinations of the 11th March 1904, are that there are to be only two examinations of the 11th March 1904, are that there are to be only two examinations of the 11th March 1904, are that there are to be only two examinations of the 11th March 1904, are that there are to be only two examinations of the 11th March 1904, are that there are to be only two examinations of the 11th March 1904, are that there are to be only two examinations of the 11th March 1904, are that there are to be only two examinations of the 11th March 1904, are that there are to be only two examinations of the 11th March 1904, are that there are to be only two examinations of the 11th March 1904, are that there are to be only two examinations of the 11th March 1904, are that there are the 11th March 1904, are that there are the 11th March 1904 is the minations preceding the University courses. The first of these, the primary examination, will mark the completion of the lowest stage of instruction, and will test the degree of proficiency attained in the highest classes of primary schools. But it will no longer be a public examination held at centres to which a number of schools are summoned. It will be conducted by the inspecting officer in the school itself. Now, in this Province the first examination is held, under ciders passed by this Government in the year 1902, at the end of the middle course, which comprises two classes above the Upper Primary stage. Hence there is no examination of any kind, except the ordinary class examinations, for the mass of boys who do not go beyond the Lower Primary standard, nor even for those who proceed as far as the Upper Primary standard. I am looking into this question and propose to sulmit a report on the subject to Government. Whatever may be decided in this respect, I am satisfied from enquiries made that the abolition of the examinations for the Lower and Upper Primary standards has withdrawn a distinct stimulus which once existed. As stated above, I have no wish to suggest a revival of the examinations as previously held; but, as at present advised, I do think that it would be desirable to organise a system of leaving certificates for the lower and upper primary standards based on the reports of the school authorities and a private examination conducted in the school itself by the inspecting officer Such a system could very well be arranged as soon as the inspecting staff is strengthened. Leaving certificates are at present only given at the end of the middle course as a result of the examination which is held at the end of that stage.

The Teaching of English.

117. Instruction through the medium of English and the teaching of English as a language are prohibited in all primary schools; but the teaching of English as a second language is allowed in middle schools in the classes corresponding to the two top classes of an upper primary school. I have discussed certain important questions connected with the teaching of this language in the chapter on secondary education.

CHAPTER VI.

TRAINING COLLEGES AND SCHOOLS FOR INDIAN TEACHERS. And we should see the blive

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Training Colleges for Teachers in High and other Secondary Schools.

118. The prime need of the Province under this head is the establishment of training colleges for teachers who impart instruction through the medium of English. The deplorable results of the last Entrance examination have very naturally led to discussion, and a cry has been raised that innocents have been massacred. At the instance of the Principal of one of the colleges of Calcutta, the Senate of the Calcutta University has appointed a committee to examine this question. I cannot say that I anticipate that this enquiry will prove fruitful. The results of the Entrance examination must, for obvious reasons, vary considerably from year to year, and no one has thought it necessary to call in question the work of the examiners in years in which the results have been abnormally good. I do however anticipate good results when the University begin to overhaul High schools under the new regulations, because the investigation thus made must bring forcibly to notice the necessity of securing better teachers in these schools. It is not difficult for those who have personal knowledge of the working of such schools to understand why there are many failures at the Entrance examination. I lately visited an important High school, and found that the Head Master could with difficulty understand English when addressed in that lauguage. This man had to teach the students through the medium of English. Comment is superfluous. If the students through the medium of English. Comment is superfluous. If they do these things in a green tree what shall be done in the dry? In making the above remarks I do not wish it to be understood that I am decrying the masters in High and other secondary schools as a body of workers. Many-I might say a large majority—are well educated men interested in their work, while many are devoted labourers. What is wanted however is that teachers should not only be well educated but also be properly trained before they are allowed to take up the important work of secondary education. To this end the Secretary of State has already approved the establishment of a training college for graduates and a normal college for under-graduates for this Province, and it is hoped that this most important project will shortly be inaugurated.

Training Schools for Teachers in the higher classes of Vernacular Schools and the Vernacular classes of High Schools.

119. As regards the training of teachers for the higher classes of vernacular schools and the vernacular classes of High schools, we are in a far better position. We already have six excellent training schools for the purpose, and we are now establishing a model school of the same kind with provision for a Principal and a Master of Method, both of whom will be Europeans trained in the latest methods of teaching. In addition to his work at the school this officer will supervise the working of the six existing schools above referred to.

Training Schools for Teachers in Primary Schools.

120. Most interesting is the experiment now being made as regards the training of the lowest grades of teachers of the country, that is to say, the teachers of the ordinary village schools. The task is a gigantic one, not only on account of the large number of teachers who require training-some thirty to forty thousand—but also on account of the very poor attainments of the men to be trained. The subject has engaged a great deal of my attention, and I have the satisfaction of being able to say that Government has recently approved several important proposals for improving the training schools for these teachers. The fundamental idea underlying the system hitherto in vogue has been that the teachers of primary schools will not give up their school work during the period of their training and devote themselves exclusively to their training. Hence a system was elaborated according to which training schools were established in the neighbourhood of the teachers

to be trained, the object in view being to attract teachers to the schools during the few spare hours when they were not engaged in their schools. The intention was that after the teachers of a given neighbourhood had been trained, the training school should be moved on to another area, and that the building thus vacated should then be utilised for the purpose of a primary school. The defects of such a scheme are apparent. The teacher, poorly endowed by nature and with the slenderest educational equipment, was expected not only to keep his school going during the period of his training, but also during his spare hours to improve his own general education

and learn the art of teaching.

121. The next point in respect of which the scheme was open to criticism was that as long as these training schools were considered to be of a temporary character, it was impossible to spend money on building hostels for the students and quarters for the teachers or to organise any system of nature study in combination with school gardening. These defects will now be rectified. At the same time, in order to compensate teachers for the loss sustained by them in having to give up their school while under training, the amount of the stipend to be held by them during that period will be increased so as to give them a bare means of subsistence. There is ample evidence that the new scheme will be appreciated, and I regard it as one of the most hopeful and useful of the educational projects. ful of the educational projects now in process of development. It is only necessary to add that these training schools will receive for instruction men who wish to become teachers of primary schools, as well as those who have already taken up the profession of teaching.

122. All classes of training institutions for male teachers being considered statistics in together, the total expenditure during the year under review amounted to respect of training Rs. 1.34 180 of which Rs. 1.19 229 were provided from Provincial Revenues schools for male Rs. 1,34,180, of which Rs. 1,19,229 were provided from Provincial Revenues, schools for Rs. 949 from District Funds, Rs. 4,403 from fees and fines, and Rs. 9,599 from other sources. Eight new schools for the training of teachers for primary

schools were opened during the year.

Proposed Training Colleges for Female Teachers.

I now come to the momentous subject of the training of female The great need for teachers—a subject which has been engaging my assiduous attention since trained teachers. I joined the office of the Director of Public Instruction early in the year. There are at the present time in Bengal, as now constituted, more than four million girls of a school-going age. What are we doing to provide teachers for this vast number? Hitherto our work has practically been confined to aiding a few training classes, the best of which are concerned with the training of Christian girls. Now, good though the work done by the Christian Mission Training Schools is, these classes may practically be left out of account, because they provide teachers almost entirely for Christian out of account, because they provide teachers almost entirely for Christian girls' schools. Moreover, strenuous objection is raised nearly everywhere to Christian women teachers, while even Brahmo women teachers are not by any means universally welcome. The crying want is therefore for good Hindu and Muhammadan femule teachers. Speaking of the training that is at present given in the aided training schools, Miss Brock, the Inspectress of Schools, has observed that the opening of proper training colleges in Bengal is, in her opinion, one of the most pressing educational needs of the Province. So strongly does she feel the necessity of such institutions that she does not believe that any material progress can be made until steps are taken in that direction. She adds that the training that is at present being given in the case of Hindu, Muhammadan and Brahmo female teachers is of the poorest description, and that there is extraordinary waste of time, teaching power and money in the process. She observes that Hindus are constantly imploring her to find well-trained teachers, and that the two branches of the Brahmo Somaj are constantly addressing her on the subject of efficient instruction for their women teachers.

124. It is not too much to say that the need for properly trained women teachers has now become exceedingly acute. Government has sanctioned schemes for peripatetic teaching by lady teachers. It has also sanctioned a scheme by which girls in villages and towns can be instructed at central gatherings by

lady teachers. The success, however, of these schemes and of numerous others, such as utilising the services of Muhammadan a'tus (lady teachers), training the wives of school-masters as teachers, etc., depends upon the question whether the people who are training others to teach are themselves properly taught. At the present time not only are properly qualified teachers not available, but it is impossible to obtain the services of ladies even with the kind of qualifications which we are at present obliged to consider as passable. To cite an illustration of the seriousness of the situation, I may observe that Government lately sanctioned the opening of a Middle English School for girls at Bankipore in order to meet the urgent need felt by the Hindus of that place for the education of their female children. The whole scheme, however, is blocked, owing to the fact that suitable teachers cannot be procured either in Bengal or elsewhere. Again, the Board of Revenue have sanctioned the employment of governesses in Wards' Estates for parda-nashin ladies and children; but they are finding the greatest difficulty in supplying the need. In fact we have begun at the wrong end. We have started schemes for teaching without providing for qualified teachers, and we are wasting money and doing much harm to the cause of education by employing unqualified teachers. It is still, however, not too late to make amends for past neglect.

The kind of

he kind of 125. I will now endeavour to make clear what kind of training we wish eachers required. to impart. The existing aided training classes for Hindu, Muhammadan and Brahmo girls are not even capable, under present conditions, of turning out teachers qualified to impart a good primary education to girls, while no attempt is being made to train teachers qualified to teach in secondary schools. We may leave alone for the present any attempt to train female teachers who will be able to teach English in high schools for girls. The number of such schools is at present very limited, and the English classes in them are at present mostly staffed by English women. In course of time we shall, no doubt, have to train Indian ladies to teach English; but, for the present, no attempt need be made in that direction. We shall have plenty to do for some time to come if we are to succeed in turning out properly qualified vernacular teachers.

Proposed training colleges.

126. Deeply impressed therefore with the urgent necessity of establishing thoroughly efficient Government training colleges for women teachers, I have endeavoured to develop, with the aid of influential Indian gentlemen and Government officials, a movement for the establishment of two training colleges, one in Calcutta and the other at Bankipore. The scheme has been provisionally approved by the Government of Bengal, but, owing to financial difficulties, has not yet been submitted by that Government for the approval of the Government of India. Convinced as I am that the future of female education in Bengal very largely depends on the success of this project, and knowing, as I do, that this belief is shared by many who have the cause of female education at heart, I am confident that the time is not far distant when these colleges will be opened. The first step in advance has already been taken, with the approval of the Government of India, in the sending to England of two Indian lady scholars to be trained for two years at an English training college. These ladies, it may be added, have been accompanied by a third Indian lady who intends to undergo a similar course of training at her own expense, so that, on her return to India, she may be able to undertake the training of women teachers for primary schools in Orissa.

Statistics in respect of Existing Training Classes for Female Teachers.

127. During the year under report there were 17 aided training schools with 806 pupils, and I unaided training school with 32 pupils; the total expenditure on all the schools being Rs. 68,972, of which Rs. 26,879 were contributed from Provincial Revenues, Rs. 56 from District Funds, Rs. 143 from Municipal Funds, Rs. 2,723 from tecs and fines, and Rs. 39,171 from other sources. The comparatively large contribution from "other sources" is chiefly expenditure incurred by the Christian Missions, the good work of which has been mentioned above.

Statistics in respect of Training Schools for Teachers, Male and Female, taken together.

128. Training schools of all classes for teachers, both male and female, being taken together, the total expenditure has increased in the year under report by Rs. 31,903. Schools for males, and male pupils, have increased by 8 and 206 respectively; while, though schools for females have declined by 1, the number of female pupils has increased by 71. The year has been one of progress, but the progress can only be considered as a mere instalment towards what is to come.

CHAPTER VII.

PROFESSIONAL AND TECHNICAL EDUCATION.

Law.

129. There is not much of interest to be said under this head. There is no central law college in this Province, but classes for the purpose of imparting legal instruction are attached to Arts colleges. The chief work in connection with legal instruction is done at the Ripon College, Metropolitan Institution, City College and the Bangabasi College, all of these institutions being in Calcutta. The official verdict hitherto has been that there is very little real teaching in these classes and that "the students rely solely on their own unaided efforts to pass the University examinations, and attend lectures merely for the purpose of obtaining the certificate of attendance which is required by the University." It may also be mentioned that hitherto the students have not usually had access to any law library. The new University regulations, in addition to raising the standard of the Bachelor of Law Degree, make provision for a Degree of Master of Law. They also make it incumbent on every college affiliated in Law to make suitable provision for a law library, so as to enable its students to have access to the reports or other books in which leading cases are to be found. The Law classes have hitherto usually been entirely self-supporting, and in many cases have been regarded as valuable adjuncts to Arts Colleges, because the receipts from them have exceeded the expenditure incurred on them. It remains to be seen how the position will be affected under the new conditions imposed by the regulations. The results of the B. L examination during the year under review were very poor, only 86 out of 512 candidates, or 16.7 per cent., being successful.

Medicine.

hitherto included statistics in regard to the Medical College, Calcutta, and the Medical Schools in his reports and commented on the working of these institutions. He has no personal knowledge of the working of these institutions. He has no personal knowledge of the working of these institutions, and any remarks which he makes in regard to them can only be the result of secondhand information. Moreover, this very information, which consists of copies of the reports of the Inspector-General of Civil Hospitals and the accompanying statistics, is, at the time when the Director writes his report, under the consideration of Government. Possibly, the retention of these statistics in the Director's report is a survival of the time when he had control of the Medical College and Medical Schools; and in this connection it is interesting to note that lately when examining the old history of the Sanskrit College I found that the first medical teaching given in Bengal was given at that college. On the other hand, if it is considered desirable that the Director should include the statistics referred to in his report, it is not clear why he is not required to include the statistics relating to Veterinary Science, which is included under the head of Professional and Technical Education in the Fourth Quinquennial Review. A similar question will soon have to be considered in regard to Agriculture. At present an Agricultural Department is attached to the Sibpur Engineering College; but, as soon as the Bengal Provincial Agricultural College is opened, the Director of Public Instruction will no longer have any

control over Agricultural education. These questions will be made the subject of a reference to Government, and are only noticed on the present occasion, because I do not understand how I can with any advantage follow the practice hitherto followed in the Annual Report in respect of the Medical College and Schools.

The Sibpur Civil Engineering College.

- 131. The recently published regulations of the Calcutta University have regulations as they in view the following objects as regards Engineering:—
 - (1) modernising the Engineering Course, (2) affording specialised instruction in

(a) Civil Engineering,

(b) Mechanical and Electrical Engineering, and
 (c) Mining Engineering,

(3) facilitating the affiliation of schools of Engineering up to the First (or Intermediate) Engineering Examination.

The Principal of the Sibpur College anticipates good results from these

changes.

Mining instruction.

Mechanical testing.

The most important development made at the College during the 132. year under review was the inauguration of classes for students who intend to take up mining as a profession. These classes have already been opened under a Professor of Mining recruited from the University of Birmingham, which is considered to be one of the best, if not the best, centre of mining instruction in England. Further, another Professor has been appointed to instruct persons actually engaged in the mining industry; and four centres of instruction have been selected-two in the Raniganj, and two in the Jheria, coalfield. It may also be mentioned that in addition to the schemes referred to above, a certain number of students from Bengal are each year being sent by the Government of India to go through a course of mining instruction at the Birmingham University. Four such students were sent home in the year 1904 and two in the year 1905.

133. A question of considerable importance was under discussion during the year under review in connection with the establishment at the College of a laboratory for mechanical testing. Work of this nature has been carried on at the College on a small scale for some time past; but the amount of work to be disposed of has increased so largely that a proposal to appoint a whole-time officer to deal with it is now under consideration. It is expected that the chief volume of work will come from Departments of Government; but it is proposed to make the laboratory available to the public, subject to the payment of fees according to a scale to be approved by Govern-

ment.

Board of Examiners for the College and its affiliated schools.

Another important question, which has been under discussion during 134. the year, is a proposal to establish a Board of Examiners for the College and its affiliated schools. Hitherto this work has been done by the Principal of the College and his staff. It is felt that, now that the affiliated schools have increased both in number and importance, it is desirable that the control of the examinations should rest with an independent body of examiners specially selected for their interest in, and knowledge of, the problems with which these institutions have to deal.

Delays in the receipt of apparatus.

135. The Principal (Mr. Heaton) deplores the delays which occur owing to the system in force as regards sending indents for apparatus to England. He observes that such delays hinder research work and often make it impossible; for, having conducted his research to a certain point, and finding a certain instrument indispensable, an officer not infrequently has to throw up his research, knowing that he is not likely to receive the instrument in time for it to be of any use. Similar complaints are also made by Dr. Bose, C. I. E., and Mr. Cunningham, Professors of the Presidency College, who carry on research work. I am decidedly of opinion that the rules are too stringent and that a relaxation is called for in favour of (a) officers engaged in research work and (b) selected officers in charge of important institutions, and I propose to make a reference to Government on the subject.

136. The results of the B. E. and F. E. examinations were satisfactory. In the former the percentage of success was 34.6, as compared with 25.9 and 46.1 Results of examinations, and in the two preceding years (1904-1905 and 1:03-1904); while in the latter it expenditure. was 53.3, as against 25 and 60.8 in the same years. The attendance at the College (82.2 per cent.) was not as good as in the previous year, when it was 92.5 per cent. This was owing to the fact that the year under review was a very unhealthy one at Sibpur; the daily average number of students under treatment, chiefly on account of malaria, being 22. The total expenditure of the College was Rs. 1,57,916. of which Rs. 1,29,249 were contributed from Provincial revenues, Rs. 22,405 from fees and Rs. 6,262 from other sources.

The Bihar School of Engineering.

137. This is an extremely important school, which teaches up to the Overseer standard. It had 171 students on the rolls at the commencement of the session. The Head Master reports that all the students who have passed out of the school in recent years have, as far as is known, easily obtained employment. The great success of this institution renders it likely that, before many years are past, this school will be raised to the status of a College. It is very satisfactory to notice that the establishment of a boarding-house attached to the school has developed in a marked degree a corporate and social life among the students: in this respect the school is a model which many colleges in Bengal could follow with great advantage. The results of the Overseer and Sub-Overseer examinations were satisfactory, 10 out of 13 students sent up passing by the former, and 20 out of 32 students sent up passing by the latter, examination. Expenditure increased from Rs. 27,616 in the year 1904-1905 to Rs. 34,311 in the year under review. Of the lastnamed sum Rs. 29,222 were contributed from Provincial revenues and Rs. 5,089 from private sources.

The Cuttack Survey School.

138. This school at present turns out Surveyors and men of the Amin class. It is in contemplation however to raise its status to the Overseer standard at an early date, and for this purpose a considerable sum of money has been raised locally.

Preliminary technical education in schools.

139. In certain selected High Schools the course of studies in the two highest classes is arranged so as to lead naturally to the instruction provided in technical schools which prepare students up to the Sub-Overseer standard. The results hitherto attained have been very disappointing. These classes, as well as all aided technical and industrial schools, are under the inspection of the Principal of the Sibpur Engineering College. It is generally thought that the time has now come when a special officer should be appointed to inspect, foster and develop technical and industrial education throughout the Province; and proposals to this effect are under discussion.

Draftsman Classes.

140. A strong need having been felt for the establishment of classes for draftsmen, steps were taken during the year under review, with the help of representatives of leading Railway Companies and Engineering firms, to establish such a class; and it is hoped that the scheme will be brought into operation during the current year.

Motor Car Driver Class.

141. At the instance of the Automobile Association of Bengal a scheme is under the consideration of Government for the establishment of a class at the Sibpur Engineering College with the object of giving to men intending to become drivers of motor cars a mechanical training such as will enable them to execute all ordinary repairs.

Industrial Chemistry.

142. In order to meet the growing industrial needs of the Province a scheme is under consideration for the establishment of classes for imparting instruction in Industrial Chemistry at the Sibpur College. The details of the scheme have still to be worked out.

Agriculture.

143. A class for instruction in Agriculture is attached to the Civil Engineering College, Sibpur. The course extends over a period of two years. Out of 11 students who were presented for the diploma examination, 7 were successful; while all obtained immediate employment under Government. This class will be transferred to the Provincial Agricultural College as soon as that institution is established.

Commercial Classes.

The new scheme of commercial education.

- 144. A new scheme of Commercial Education, which was elaborated in consultation with the Bengal Chamber of Commerce and the Bengal National Chamber of Commerce was inaugurated at the Presidency College on the 1st July 1905. The scheme consists of two parts, the one comprising a day course, every part of which is obligatory, extending over a period of two years, and the other a series of evening lectures on certain subjects, any one or more of which may be selected at option. The following are the subjects prescribed for the day course :-
 - (i) English (modern', and especially English correspondence, including commercial correspondence, letter-drafting and précis-writing;

- (ii) arithmetic, including commercial and mental arithmetic; (iii) one of the following languages, namely, Bengali, Hindi, Urdu, Uriya, French, German or Latin;
- (iv) one of the following subjects, namely, book-keeping, shorthandwriting or type-writing; and

(v) commercial history and geography.

The following are the subjects prescribed for the evening course :-

(i) outlines of political economy;

(ii) banking and currency;

- (iii) commercial and industrial law;
- (iv) annuities and insurance;
- (v) book-keeping;
- (vi) shortband-writing;
- (vii) type-writing; and
- (viii) English (modern).

It is too early yet to judge how far this scheme will prove effective and adequate. The day course is the principal one; and, as stated above, it extends over two years. The first examination of students under the new scheme for the day course will therefore not take place till April 1907. The evening classes have hitherto not proved a success, and in fact it is doubtful whether in this climate such classes can be expected to achieve results such as are obtained in Europe. The immediate need in respect of these classes is to remove them from the Presidency College, where they are cramped for room, to the business part of the city. It is unreasonable to expect business men after a long day's work to travel any considerable distance for the purpose of attending the evening classes

145. The commercial education provided at the Presidency College aims only at turning out men qualified to be good clerks. If the present scheme proves a success, it will obviously be necessary to provide before long for a superior commercial education such as will fit a man to conduct a business on his own account. Meantime, the proposal recently made by the Government of India to send scholars to England for an advanced course of commercial

education will meet a distinct want in this Province.

146. Commercial education is also provided at the Kurseong Victoria Boys' School and at several Government and aided high schools. In the case of the latter schools the course of study leads up to the day course prescribed for the commercial classes at the Presidency College. Besides the above mentioned schools at which commercial instruction is given, there are three privately managed commercial schools, one aided and two unaided which teach shorthand and type-writing.

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The Calcutta Art School and Art Gallery.

Japanese artist of the Tokio Art School was engaged temporarily during the year under review to give lessons in the Japanese method of brush work and flower painting. The class in the school which gives the most promise is the Advanced Design Class. It is hoped that students from this class will be able to undertake the decoration of the new Art Gallery building which is now in process of construction. Pending the completion of the building referred to, the collection of Indian paintings belonging to the Art Gallery is stored in the Art School premises. These paintings were inspected during the year under review by a party of Japanese artists and Art experts, who declared them to be the best collection of Indian paintings to be seen in India. The increase of expenditure during the year under review (Rs. 21,464), shown under the head of "Schools of Art," was due to large purchases made for the Art Gallery of old Tibetan banner pictures, Buddhist statues, valuable textile fabrics, etc. Some of the inscriptions on the statues and paintings are said to be of considerable archæological interest.

The Serampore Weaving School.

School at Serampore, and it is hoped that it will be possible to commence work in the coming cold weather. The object of the scheme is, firstly, to bring home to the ordinary artisans the latest improvements in respect of weaving apparatus, and, after supplying them with the necessary instruction, to give them advances of money in order to enable them to purchase the necessary apparatus; and, secondly, to train a higher class of students with the object of enabling them to become teachers of improved methods in outlying centres or to start businesses of their own in the weaving line.

Industrial Schools.

149. These schools have increased in number from 30 to 41, chiefly owing to the activity displayed in this connection in the district of Hazaribagh by the present Deputy Commissioner, Mr. Radice. As stated above a special officer is required for the effective supervision of technical and industrial education. The example set by Mr. Radice in Hazaribagh shows how quickly this branch of education could be developed if there were an officer whose whole time could be devoted to the subject. I regard this as an essential step towards future progress. The total expenditure increased from Rs. 32,586 to Rs. 36,853. Of this latter sum, Rs. 7,954 were contributed from Provincial Revenues, Rs. 6,745 from District Funds, Rs. 314 from Municipal funds, and Rs. 21,840 from fees and fines and other sources.

CHAPTER VIII.

EDUCATION OF INDIAN GIRLS IN SECONDARY AND PRIMARY SCHOOLS, AND ZANANA EDUCATION.

General Remarks.

I have expressed my views on the subject at length in the chapter on Training female teachers. Colleges and Schools, it is impossible to avoid a reference to the same subject when considering the question of the education of girls in secondary and primary schools and the zanana. It is very generally admitted that there is an urgent need for training colleges in Bengal. A criticism has however been made in this connection that "it is only in higher schools and in large towns that the need for well-qualified female teachers is so pressing, and that for many years to come such luxuries will have to be dispensed with in the upper and lower primary girls' schools, where use must yet be made of the local guru or pandit." Now, though it is undoubtedly true that we cannot for many years to come dispense with the local male teacher, and that a large extension of the system of mixed schools is very desirable, I cannot at all admit that the urgent need

for well-qualified female teachers is by any means limited to the higher schools and to large towns. In the first place, there is a very general and marked aversion on the part of a large proportion of the population to sending girls to school at all, not because the people are indifferent to the education of their female children, but because they do not like sending them to schools where there are male teachers, that is to say, schools where the pardah is not observed. In the second place, even if girls are allowed to go to school, they are, for the reason just given, removed from it at a very early age. Thirdly, if we are to instruct girls only up to the age when they are removed from school, I fear that our efforts will be largely wasted: the little instruction thus given is soon forgotten. I hold that the education of girls should not be abandoned at this early age, but should be continued in the zanana. Here we are immediately met face to face by the most pressing need for female teachers; and, if good results are to be secured, these teachers must generally be neither Christians nor Brahmos, but Hindus and Muhammadans. Christian Missions have doubtless done much good work, and Government is greatly in their debt for what they have effected in the way of popularising female education and sending out Christian female teachers. The Missions themselves would, however, be the first to admit that their sphere of usefulness as regards the development of this branch of education is not unlimited.

General review of the education of women.

women in Bengal in the last quinquennial period (1897-98-1901-02), Sir Alexander Pedler observed :-

"The chief causes for the slow progress of this branch of education in this country are: -(1) The conservatism of a great portion of the people; (2) the fact that the education of their female children is a matter of great indifference to a large proportion of parents and guardians, as they usually do not take the same amount of care and interest in the education of their female wards as they do in that of boys; (3) the system of early marriage which presents an almost insurmountable barrier to education beyond the primary stages; (4) the want of educated female teachers; (5) the want of a system for educating zanana ladies; and (6) the want of adequate State aid and aid from other public funds."

Without wishing to dispute the large measure of truth contained in these observations, I am distinctly of opinion that they do not constitute quite a complete, or in some respects fair, account of the position. I quote below what Miss Brock, the Inspectress of Schools, said in her report for the year 1904-1905:-

"I found from visiting zananas and from the expression of native opinion that there was no prejudice against the education of girls, but a strong feeling against any relaxation of the pardah system for higher caste girls. In support of this is the fact that recently a meeting was held at Muzaffarpur of the more educated classes, with a view to opening a strictly pardah school for Hindus. In some parts of Bihar education would be welcome did it not bring with it the presence of male officials. What is needed is a far greater extension of the zanana system of teaching for higher caste girls as a preliminary step to schools, and for lower class girls strictly pardah schools. These would of necessity have to be wholly inspected by women."

I also give below some very interesting extracts from that lady's report for the year 1905-1906:-

"The most important question in relation to female education still remains the problem of obtaining and adequately training teachers. Only as regards the staffing of Mission Schools is the outlook at all promising. As regards Hindu, Muhammadan and even Brahmo schools, the difficulty remains unsolved * * * "

"As regards ganana teaching I am obliged to draw a sharp distinction between Hindu "As regards zanana teaching I am obliged to draw a sharp distinction between Hindu and Muhammadan work. I am quite convinced that as soon as we can command trained female teachers, orthodox and of good family, education will make remarkable progress among Bengali Hindu pardah women. I am repeatedly struck by the fact that in large towns Hindu gentlemen are in the habit of trying to induce European ladies to give instruction, including teaching in English, to their girls, and are often willing to pay good fees. On the other hand, even entrance into Muhammadan zananas is very difficult, and the education of women is regarded with extreme suspicion " "In the immediate future, if adequate assistance is afforded, I anticipate a great increase in the number of girls' schools. From month to month it is increasingly impressed upon me that many of the supposed difficulties with regard to Hindu female education do not exist, and that the real obstacles we have to encounter might be overcome by a more intimate knowledge of Indian social life as it affects women. A very large number of Bengalis would not oppose female education were it offered in a form which would be acceptable. This was the opinion I stated a year ago. During this past year this view of the matter

"As regards primary schools under Mission management endeavour is being made to draft untrained members of teaching staffs into good training classes and to staff primary schools entirely with trained female teachers. I have good hopes that in Calcutta at all events before long both these objects will be attained in these schools. Primary schools under Hindu management still continue to be, for the most part, in the hands of pandits, but the request is everywhere being made by them for a competent female teacher to be added to the staff. The difficulty in meeting this demand is however very great, even when the teachers are forthcoming. Christian and Brahmo girls, where accepted, demand high salaries and for the most part will not work in the districts and in primary schools. Should the Government training colleges be started, one of the greatest difficulties will be to induce the girls after a training in Calcutta and Bankipore to return to the village primary school. If Hindu and Muhammadan women however are secured the difficulty will vanish. They will expect to return to their own villages or towns

"I have this year seep more of Muhammadan to the staff of the difficulty will vanish."

"I have this year seen more of Muhammadan schools and come more into touch with Muhammadan zanana life. Education both in the schools and in the zanana is of the most meagre description. In the former this is undoubtedly due to the early age at which girls are withdrawn, not for marriage, but within the pardah: in the latter it is owing to the almost utter lack of training and education in the teachers. From what I have observed I consider that in the case of Muhammadans the work has not yet been attempted on the right lines for success. The majority of Muhammadans will no doubt for years to come view the movement for the education of women with dislike; but that will be no bar, if certain conditions are allowed, to the progress of education both in the zanana and the school. Muhammadan schools must be altogether pardah, and all local male officials entirely withdrawn from the schools. A conveyance grant for the schools is necessary if high class Muhammadan girls are to be secured. Women of good family must be obtained as teachers for the schools, but above all for the zanana. These teachers must be able to speak good Urdu. Lastly, one of the mest important points is, I consider, the giving of certain concessions with regard to the curriculum. The text books above all should be such as are acceptable to the Muhammadans. I am convinced that if we could obtain teachers capable of giving an acceptable course of instruction, a large number of zananas would be at once accessible."

154. I think that Miss Brock's remarks throw a great deal of valuable light on a most difficult question. It seems to me that if the education of women is presented, as Miss Brock says, "in an acceptable form" "the conservatism of a great portion of the people" which was referred to by Sir Alexander Pedler as being the first cause of slow progress, would gradually be won over to the side of progress. Miss Brock's report also shows—and enquiries made by me corroborate her view—that the people are not so indifferent to the education of their female children as is usually supposed: there is a considerable awakening in this respect. This was the second cause referred to by Sir Alexander Pedler as hindering the progress of female education.

155. The third cause assigned by Sir Alexander Pedler for the want of progress was the system of early marriage, which he stated presented an almost insurmountable barrier to education beyond the primary stage. My reply to this is that the barrier itself will yield to the influence of education. It has already done so in the case of the Brahmo community, whose girls marry later in life and consequently attend school longer than Hindu and Muhammadan girls. Most instructive in this respect are the remarks made by His Majesty's Agent and Consul-General in Egypt in his Administration Report for the year 1905, from which I quote the following passage:—

"The remarkable and continuous progress of female education in Egypt marks very clearly the changes of custom and alteration of ideas which are taking place in the country. When the first efforts to promote female education were made, they met with little sympathy from the population in general. Parents sent their daughters to school reluctantly, and took them away early. In order to encourage the education of girls, it was necessary to admit a large number of free pupils. Most of these came from the poorer classes, and left early, either to be married or because it was thought unbecoming for a girl to attend school after she had passed the earliest years of childhood. The reluctance of parents to send their daughters to school has now been largely overcome. Free education in the Government Primary Schools has been practically abolished. Demands are frequently made for the establishment of other schools in different parts of the country. The number of private establishment of other schools in different parts of the country. The number of private schools for girls has also greatly increased of late years. Further, it is to be observed that the steady output of boys from the Secondary Schools and Higher Colleges has distinctly

stimulated the movement for female education, for the younger generation are beginning to demand that their wives should possess some qualification other than those which can be secured in the seclusion of the harem. The interaction of the two branches of education does not stop here, for not only has the growth of education among boys stimulated the desire for instruction to girls, but it has also tended to improve the quality of education given to the girls by prolonging the period of instruction. There appears good reason for supposing that, where education has made progress, the age of marriage has risen, and that, in consequence, the girls are allowed to remain longer than heretofore at school."

156. I invite particular attention to the last sentence of the quotation just given. Surely Egypt and India are not so different that it is unreasonable to expect that, where education makes progress, the age of marriage will rise, and that in consequence girls will be allowed to remain longer than heretofore at school.

a hindrance to the progress of the education of women, viz., (1) the want of educated female teachers, (2) the want of a system of educating zanana ladies, and (3) the want of adequate State aid and aid from other public funds. Sir Alexander Pedler stated however that a considerable increase in the expenditure had been incurred in recent years, and that more energetic measures were being taken to foster the spread of female education. I have also shown in this report that active steps are being taken to supply the need of trained female teachers both for girls' schools and for the zanana.

158. To sum up the matters above discussed, I venture to say that, as far as Bengal is concerned, the chief cause at the present time operating to hinder the progress of the education of women is the want of qualified and respectable Hindu and Muhammadan female teachers and inspecting agents, and the consequent inability to organise the kind of schools or the type of zanana education which the people require. We still want money of course, but it is not immediately so much needed for increasing the number of schools for girls and zanana centres of instruction as for producing suitable teachers. Given these, I feel that a vast field lies ready for exploration. I have ample evidence of this in the various schemes for imparting instruction to females

which are being put forward.

159. One of the most hopeful is a project which has been quite recently brought forward by Mrs. Roy, wife of Dr. P. K. Roy, late of the Indian Educational Service. This is a scheme for the award of scholarships and rewards with the object of encouraging instruction in the zanana. Committees of ladies, European and Indian, assisted by advisory Committees of men, are to be formed at suitable local centres. These Committees will work out syllabuses of instruction suitable to the various classes of the community and frame scales of scholarhips and rewards. It is said that a system of this sort was widely in vogue and very popular some years ago in the Dacca Division, but that it eventually languished owing to want of encouragement by Government. An indirect, but very substantial, by-product of this project will be the formation of the committees referred to. Such committees will not only be useful for the purpose of the project above sketched, but will also be of great value in other directions, such as helping and advising in the work of local girls' schools, aiding and encouraging zanana instruction of all kinds, helping the female inspecting agency as regards their work in training classes and the selection of teachers for training, etc., etc. I regard this latest development

as most hopeful.

160. In short, the direction which progress must take must not be antagonistic to the conservative instincts of the people with which sympathy must be shown. Our policy must not be destructively radical but progressively conservative. We can only advance by devising measures which are not inconsistent with prescription, to which in the past insufficient concessions have been made. We should not run amuck against tradition, but should carry tradition with us on the lines of progress.

Statistics in respect of secondary and primary schools.

161. During the year under review secondary and primary schools for girls taken together increased from 2,563 to 2,877, and students in such schools from 61,432 to 67,755, that is, by 12.3 and 10.3 per cent., respectively. If the number

General statistics.

of boys in girls' schools be deducted, the actual figure as regards girls in girls' schools comes to 65,632, as against 59,034 in the previous year, the percentage of increase being 11:15. In addition to the 65,632 girls in girls' schools, there were 43,446 girls in boys' schools; the total of girls under instruction being 109,078, as against 102,546 in the previous year, and the percentage of increase being 637. One in every 36 girls of a school-going age, or 2.7 per cent., was under instruction, as against 1 in every 58, or 1.7 per cent., at the close of the last quinquennial period. It may be explained in this connection that each centre where zanana instruction is imparted is counted, for the purpose of the statistical returns, as a primary school and the girls under instruction as students in such schools. In future, however, I shall show figures for zanana education separately in the returns

162. Almost all the girls under instruction were in the primary stage of Distribution instruction. Thus, of the total number of schools for girls (2,877) all except between the 34 were primary schools; and of the total number of girls under instruction secondary stages of

(109,078) all except 402 were in the primary stage. 163. Expenditure in connection with secondary and primary girls' schools Expenditure increased by Rs. 42,791; and of the total expenditure incurred, viz, Rs. 3,99,837, Rs. 1,17,031 were contributed from Provincial Revenues, Rs. 69,753 from Local Funds, Rs. 46,440 from fees, and Rs. 1,66,613 from other sources.

164. The results of the examination held at the end of standard VI were Results of satisfactory, 66 candidates appearing, of whom 52 passed, as against, in the examinations previous year, 64 candidates, of whom 49 passed. There are no formal examinations at the end of the upper primary and lower primary courses, as explained in the chapter on "Primary Education for Indian Boys"; but the class examinations held at the end of these stages show a large falling off in the number of candidates appearing, with, however, a large increase in the percentage of successful caudidates. The combined figures for these two stages show that, whereas in the year 1904-1905 of 2,098 candidates 1,358 were successful, in the year under review of 1,595 candidates 1,297 were successful. The general causes for the unpopularity of these examinations have been discussed in the chapter above quoted.

Technical and Industrial Training.

165. Very little technical and industrial work for women is at present aided by Government, but a comparatively large amount is being done in different parts of the Province, chiefly by Mission agencies. The lace-industry at Kalimpong, which is aided by Government, is already a success, and it is proposed to extend it to parts of the Chota Nagpur Division and the Sonthal Parganas. The work requires fostering, and when our female inspecting staff is increased, this will be possible.

CHAPTER IX.

EUROPEAN EDUCATION.

Introductory.

166. The term "European," as used in this chapter, signifies any person The term of European descent, pure or mixed, who retains European habits and modes of "European." life; and for the purpose of the grant-in-aid rules all except 15 per cent. must answer to the above definition.

167. Although the Partition was given effect to from the 16th October 1905, The Partition. European education in the Divisions transferred to the new Province remained in charge of the Bengal Education Department till late in the year under review. As a result of the separation of these Divisions this Province has lost 6 schools. This report primarily concerns the schools which are left with this Province, but the statistics given in respect of the annual examinations concern candidates from Bengal and Eastern Bengal and Assam, inasmuch as these examinations were held for both Provinces by the Bengal Education Department.

Collegiate Education.

168. Collegiate education for Europeans is practically non-existent.

Loreto House, Calcutta, which has University classes attached to it, returned only one student. The Bethune College for ladies returned two European students.

Schools.

Government, 62 are aided and 5 are unaided. It is much to be regretted that the Inspector has failed to secure returns from the Armenian College, which is not included in the 5 unaided schools above referred to. The Armenians, though a small community, form an important element in the complex society of Calcutta, and the education given at the college is not a matter of indifference to Government. Of the 69 schools referred to, 44 were secondary, and 25 primary, schools. Of the 44 secondary schools however only 14 taught up to the high school stage, the rest being middle schools.

Pupils.

Educational institutions of all kinds.

Secondary and primary schools.

170. The total number of pupils in educational institutions of all kinds for Europeans was 7,925, of whom 301 were in institutions managed by Government, 6,782 in aided institutions and 842 in unaided institutions. In addition, there were 209 European pupils studying in institutions for Indians. These pupils are not however included in the statistics dealt with in this chapter, which refers solely to institutions for Europeans and pupils of such institutions.

171. The total number of pupils undergoing general education in secondary and primary schools on the 31st March 1906 was 7,803, as against 8,286 on the 31st March 1905. If however allowance is made for the transfer of 6 schools to the new Province and for the fact that the Armenian College has submitted no returns, there appears to have been no loss, but a gain of some hundred or more pupils. Of the 7,803 pupils referred to, 2,098 were in the secondary, and 5,705 in the primary, stage of education. Of the 7,803 pupils above referred to, 7,133 were of European, and 670 of Indian, parentage.

Secondary and primary schools and scholars according to management.

57.17 per cent. were in schools controlled by the Roman Catholic Church; while 28 cut of the total number of 69 schools, or 40.6 per cent., were under the management of that Church. Next comes the Church of England with 17.28 per cent. of the total number of pupils and with 11 schools out of the total number of 69. It is interesting to note on the other hand that the census figures show that out of the total European population 51.4 per cent. belong to the Anglicau Communion, and 36.2 per cent. only to the Roman Catholic Church. These figures are to some extent vitiated by the inclusion in the census figures of the British forces; but it is well known that a large number of Protestant children study in Roman Catholic schools.

Finance.

Unreliability of

to the returns submitted, Rs. 3,43,683 were derived from Provincial Revenues, Rs. 2,754 from the Calcutta Corporation, Rs. 6,80,325 from fees, Rs. 2,44,812 from subscriptions and donations, and Rs. 1,43,988 from endowments and other sources. I regret to say however that the figures returned for subscriptions and donations are totally unreliable. It is needless in this report to enter into details, but it may be stated that the amount reported under this head is probably at least a lakh of supees in excess of the amount actually centributed. On the assumption that that is the case, it appears that not much more than about Rs. 1,00,000 were subscribed by the general public; for, included in the figures under this head, are sums of Rs. 30,451 received from the Bruce Institution for the maintenance and education of its wards and Rs. 9,230 paid by Railway Companies in grants to Railway schools. As an illustration of the general unreliability of the returns, I may mention that the expenditure returned under the head of

"Boarding Charges" has declined by Rs. 1,59,302, whereas no material change of circumstances has in fact occurred. The decline is apparently to be accounted for by the vagueness of the information received from the schools and by the absence in the Inspector's office of any settled principle for the distribution of the expenditure among the various heads of the statistics. This unsatisfactory state of the returns will continue till all school accounts are kept in some rational way common to all and audited by some one who has an expert knowledge of account keeping. This question, together with that of a proper system of auditing accounts, was discussed by the Hill Schools Committee in their report, and the subject is engaging the attention of the Government of India. Meantime, I have with the assistance of Mr. Chapman, lecturer for the Commercial classes, Presidency College, had a modified form of return prepared, which is under consideration.

174. The total expenditure returned last year was Rs. 14,50,414. The Total expenditure, expenditure for the year under review being Rs. 14,15,562, who decrease amounts to Rs. 34,852. This decline is attributable to the transfer of 6 schools to the new Province and to the fact that returns have not been received for

the Armenian College this year.

Examinations.

175. The results of the examinations could scarcely be worse. Of 74 Departmental candidates that appeared at the High School and Scholarship Examination examinations. 20, or 27 per cent. only, passed. At the Middle School examination, of 81 candidates who appeared 14, or 17.2 per cent. only, passed. The position perhaps becomes still clearer when it is stated that of 49 boys who, having completed their education, were sent up for the Middle School examination before being sent out into the world, only 5, or 10.2 per cent., were able to pass. It is true that owing to the fact that several schools new take the Cambridge University Examinations, some of the best teachers in European schools are now available as examiners, and this circumstance may have led to a raising of the standard. The fact however to be faced is that the verdict of a specially able body of examiners has been most unfavourable. A certain amount of good work was shown in arithmetic, and this mostly by boys; otherwise the results of these examinations seem to bear out the truth of the following remark made by the Inspector in his report for 1904-1905:—"A certain amount of proficiency is obtained by boys in elementary arithmetic. With this exception the work is poor and slovenly to a degree." I reserve my remarks as to what can be done to set matters right to a later part of this chapter.

176. La Martinière College, Calcutta, for boys and girls, the Diocesan The Cambridge Girls' School, Darjeeling, and the Pratt Memorial School, Calcutta, did well at Local Examinations. La Martinière secured 2 passes at the Senior Local, 9 at fions.

the Junior Local, and 18 at the Preliminary Local, examination.

177. From Loreto House 2 candidates passed the Entrance Examina Calcuttation, while from St. Xavier's College 9 were successful.

Calcutta
University
Entrance
Examination

The training of female teachers.

Welland Memorial Kindergarten, Calcutta, has up to date been a dismal failure. The mistake has been made of endeavouring to train students as teachers with inadequate and insufficiently qualified staffs. At Kurseong the staff employed has been neither adequate nor sufficiently qualified, and at the Welland Memorial Kindergarten the conditions of work are quite unsuitable. The mistake is being rectified, but much valuable time has been lost. It is now proposed that a separate training college should be established at Kurseong with an adequate staff, and that in future the least qualifications that members of the teaching staff shall possess shall be those of a person who has not only had a secondary school education and secured a University degree, but who has in addition had some experience on the staff of a secondary school. As students have not hitherto had a fair chance, I refrain from giving details in regard to the depressing results hitherto obtained. We are, I believe, now upon the right path.

Professional and Technical Education.

The Sibpur Engineering College.

Engineering is one of the best openings for European boys. On the 31st March 1906 there were 47 such boys at the Sibpur Engineering College, viz. 4 in the Engineering, and 43 in the Apprentice, Department. One European passed the B. E. Examination and two the First Examination in Engineering. Four Europeans passed the overseer, and 4 the sub-overseer, examination; while 2 passed the survey final examination.

Victoria Boys School, Karseong.

180. Twelve boys were under instruction in the technical classes which are attached to the Victoria Boys' School, Kurseong. Five boys were sent up for the last sub overseer examination of the Civil Engineering College, Sibour, this being the first batch of candidates presented from this school. The result of the examination was satisfactory. Out of the 5 candidates sent up, 3 were successful, one obtaining the first place on the list, while the other two stood 7th and 16th respectively. The failure of the two remaining candidates was reported to have been due to their having contracted a severe type of the fever while going through their practical training in surveying in the Darjeeling Terai in November 1905. Orders have since been passed that in future the survey camp is not to be held in the Terai.

181. The East Indian Railway Technical Night School at Jamalpur continues to give instruction in steam engine and machine construction, applied mechanics, algebra and mensuration, and it is reported that it is proposed to extend the work of the school. The average nightly attendance at this

institution during the year under review was 51.3.

182. St. Andrew's Colonial Homes, Kalimpong, give a certain amount of training in carpentry and farm work. Both boys and girls are trained to . domestic work by being made to do all the work which is required for

the management of the Homes.

183. At St. Helen's Convent, Kurseong, there is a well equipped department for instruction in cookery, needle-work, dress-making, sick-nursing and the compounding of medicines. It is to be regretted however that though girls are willing to join the Technical Department, they are not as a rule inclined to devote to it time or attention sufficient to enable them to master any single subject. In order to meet this defect orders have recently been issued that no Government grant will be paid on account of any student of this department who has not attended 75 per cent. of the total number of school meetings held during a school session.

184. Some other schools for girls attempt a certain amount of instruction in cookery and dress-making, but in all this technical work for girls there is a lack of organisation and definiteness of aim which deprives it of a great deal of its value. In order to meet this evil it is proposed to open at the suggested Training College for female teachers at Kurseong a Technical Department for the training of a small number of teachers in Technical subjects.

185. A commercial class was opened at the Kurseong Victoria School for Boys at the beginning of the current session (1906) with a master specially recruited from England for the purpose. Commercial education of an elementary character is also given at several other schools. The work suffers however from lack of organisation and supervision. I shall endeavour to arrange some system of general control, as I have already done in the case of commercial classes in Indian schools.

Volunteering.

186. Eleven hundred and fifty-four cadets became efficient during this year.

General Remarks.

187. Last year when reporting on the general condition of European education in Bengal the Inspector spoke in no doubtful terms of its unsoundness and urged the unwisdom from a political point of view of allowing this unsoundness to continue. In reviewing these remarks the Government of Bengal stated in its Resolution that the political consequence of such a state of things could not be regarded with indifference; because, restricted as Europeans and Eurasians are in their choice of the means of livelithood, their educational fitness is a matter of great importance. The picture

The East Indian Bailway Technical School.

St. Andrew's Colonial Homes, Kalimpong.

St. Helen's Convent, Kurseong.

Other schools for

Commercial education.

presented by the various facts recorded in this report is, except in the case of a few superior schools, gloomy indeed from almost every point of view. Other features of the problem which have not been referred to are equally discouraging. Some of the leading schools of the Province are still struggling under a burden of debt which makes any real progress impossible. Many are working in buildings which are admittedly quite unsuitable, while all practically are striving to accomplish tasks for the performance of which their resources are inadequate. Inspectors have told us that the work of the schools is bad and employers of labour have testified to the truth of this criticism. Three years ago a partner of one of the leading Engineering firms of Calcutta stated before the Hill Schools Committee that in his opinion European boys educated in India never had more nor better opportunities of getting on if they would only apply themselves to work and take advantage of their opportunities. Then, after pointing out that an engineering firm most emphatically does not expect boys to come to it technically trained, he declared that, in spite of their opportunities, European boys educated in India did not get on in Engineering work owing mainly, he thought, to their total ignorance of elementary practi-

cal mathematics and geometry and their hopeless want of application.

188. The question is what is to be done. To my mind the answer is clear. We must have a better scheme of work and better teachers. I am thankful to be able to say that, dark as the past has been, the future is not without hope. We have now attained to a position from which, if we will use our eyes, we can see the goal which we wish to reach and at the same time make out the paths which, if we follow them consistently, will lead us to it. Last year the Government of India, in returning to Local Governments the Revised Code of Regulations for European Schools, expressed themselves as dissatisfied with the curriculum laid down, and desired Local Governments to examine it with a view to its consolidation in the various classes of schools. This letter was sent to the Inspector of European Schools, who submitted in reply an exhaustive criticism of the present system, in which he pointed out that under present conditions only one class of school is recognised, and that the only difference between such divisions of schools as do exist lies in the fact that certain schools are permitted to take the whole of what purports to be a complete school course, whereas others are only allowed to take certain parts of it. Now, if only one class of schools is recognised, it is obviously futile to attempt to consolidate the courses in various classes of schools. Consequently, Mr. Hornell first of all suggested how in his opinion schools should be classified; and, having laid down the principle that, for the future, recognition should mean recognition as a school of a certain class, he proceeded to make proposals for the curriculum of each class. Mr. Hornell's proposals were then placed before a representative conference of school managers, teachers and others interested in European education. The classification proposed by him the conference was not prepared to accept; his criticisms it did not attempt to gainsay. It accepted the principle that European schools should be classified into elementary and secondary; and, having laid down two excellent curricula, one for elementary and the other for secondary schools, it proposed that under ordinary circumstances no school should be recognised either as an elementary or as a secondary school unless it could show that it could teach efficiently the whole of the curriculum prescribed. It further agreed that any school applying for recommendation as a secondary school should in the first instance be inspected by a board of three Inspectors, of whom the Inspector of European Schools should be one. The proposals put forward by the conference have since been referred to Government for orders.

189. In these resolutions of the conference, it appears to me, lies the hope of the future. We can make no advance until we know first of all what we desire to teach and secondly what schools there are which can impart this instruction. To the first stage we may claim to have attained when the conference unanimously proposed curricula for elementary and secondary schools which from an educational point of view leave practically nothing to be desired. To the second stage we cannot hope to attain until we learn from a competent authority what schools can teach the secondary, and what schools can teach the elementary, curriculum. This information we may hope to get when the proposed Board of Inspectors has done its work.

want, and having ascertained clearly how far and in what particulars the existing schools fall short of our requirements, we shall begin the work of reconstructing individual schools on the basis of these considerations. An efficient teaching staff will be everywhere the first consideration; and, as I fear that a sufficient number of efficient teachers will not at first be forthcoming, it will be necessary in not a few instances, for the present at any rate, to arrange that the managers of schools may be in a position to recruit from England. I recognise however that the necessity for this importation is not a healthy sign; for, though the occasional introduction of new blood from England will doubtless be always desirable, the bulk of the schools ought obviously be to able to recruit the majority of their teachers in India. The Training College at Kurseong will supply us with the necessary number of female teachers; while, as regards the training of male teachers we must look to the establishment of the proposed Training College at Allahabad. We have ascertained by experiment that for the present at any rate there is no hope of such a college being successful if confined to this Province only.

192. On the whole therefore we may fairly say that, dark as the past history of European Education in Bengal has been, we are beginning to leave that past behind. The corner has been turned and we may hope that a new

CHAPTER X.

MUHAMMADAN EDUCATION.

General Remarks.

193. Owing to the Partition the proportion which the Muhammadan population bears to the general population has been considerably curtailed. The Muhammadan population of the Province is at present 9,034,949 and represents only 17.2 per cent. of the general population.

era has begun.

194. In the case of the general population 108 per mille of males and Present state of 5 per mille of females are literate. In the case of the Muhammadans the Muhammadans the literacy.

proportions are only 81 and 3 respectively.

195. As stated above, the Muhammadan population is 17.2 per cent. of the Papils under general population. On the other hand the percentage of Muhammadan instruction. pupils to pupils of all creeds is only 13.9, or if the figures returned by private institutions are, for the reasons given in Chapter XII, excluded as unreliable, the percentage is exactly 13. The percentage of Muhammadan pupils under instruction in public institutions in the year under review to Muhammadan children of a school-going age was 11.2; while the corresponding percentage for the general population was 14.8. It is however when we come to analyse the figures as regards the higher stages of instruction that the backwardness of the Muhammadans comes out more clearly. Thus, though the percentage of Muhammadans in primary schools is 13.7, and though this figure bears a fair proportion to the percentage of the Muhammadan population (17.2), in the higher stages of instruction the percentages fall off in a striking manner. Thus, in secondary schools the percentage is 8.7 only, in professional colleges, 4.3 only, and in arts colleges, 6.3 only. From all points of view therefore the Muhammadans have much ground to make up.

Progress.

196. The total number of Muhammadans attending all classes of educational institutions increased from 166,781 in the year 1904-1905 to 171,905 in the year under review, or by 3.0 per cent., as against an increase of 2.2 per cent. in the total number of pupils of all religions. On account however of the unreliability of the statistics returned by private institutions it is safer to make the comparison by reference only to pupils attending public institutions. In that case the increase in respect of Muhammadan pupils is 2.45 per cent., as against an increase of 2.16 per cent. in respect of the total number of pupils of all religions. The result is satisfactory so far as it goes. In the Government Resolutions on the Director's reports for the years 1902-1903 and 1903-1904 the hope was expressed that, in view of the increase in those years of 5.8 and 11.7 per respectively in the number of Muhammadan pupils under instruction. cent. respectively in the number of Muhammadan pupils under instruction, a real and lasting awakening had occurred on the part of the Muhammadan community to the advantages of education. In the year 1904-1905 however the total number of Muhammadans attending educational institutions declined by 3.1 per cent., as against a decrease of 1.5 per cent. in the total number of pupils of all religions. It is not wise therefore to expect too much: on the whole there is a steady, though slow, improvement, and it is possible to hope that it may be maintained.

The Calcutta, Hooghly and Murshidabad Madrassahs.

197. A proposal is under consideration for the establishment of a Title Examination for Madrassahs on the lines of the Sanskrit Title Examination referred to in the chapter on University and Collegiate Education. A scheme to this effect was recently submitted by Dr. Ross, late Principal of the Calcutta Madrassah, and is now under consideration. The Sanskrit Title Examination has been so eminently successful in stimulating Sanskrit learning that it is not too much to hope that considerable enthusiasm will be evoked in regard to Muhammadan lore, if the examination referred to is established. I have already mentioned, in the chapter on "Education of Special Classes," that His Highness the Nawab of Murshidabad has submitted proposals for the amalgamation of the Murshidabad Madrassah with the local Government High school.

Indigenous Schools.

198. A scheme which affords much cause for hope in connection with Muhammadan education is one which was elaborated in the year 1903-1904 by a conference over which Dr. Ross presided, for developing the indigenous Muhammadan primary schools which exist throughout this Province. This scheme was sanctioned in the year referred to, and was partially brought into force in the year under review. It is only in the current year however that it has been found possible to provide the necessary funds for giving effect to the complete project, the recurring charges of which amount to Rs. 18,542. I trust that even this will prove to be only the beginning of a wider scheme for bringing these schools under Government recognition. It is certain that that recognition will increase the number of pupils, and that the financial aid afforded will give stability to a deserving class of institutions.

Results of Examinations.

199. Muhammadan candidates did considerably better in the B. A. and F. A. examinations than in the previous year, notwithstanding the fact that in that year the results of the B. A. examination were exceptionally good. In the M. A. examination however and in all other examinations the results were very disappointing.

CHAPTER XI.

EDUCATION OF SPECIAL CLASSES.

Education of Chiefs and Nobles.

Education of the sons of Chiefs and

200. The Nawab of Murshidabad's Madrassah is intended for the education of the descendants and relations of the Nawab Bahadur of Murshidabad. As such, it has been a failure. Mixing only with their equals and removed from outside influences, these lads have no incentive to improvement. So convinced of this is His Highness that he has agreed to a proposal that the Madrassah should be amalgamated with the local Government High School. He hopes that by mixing with other boys in the High School the Nizamat boys will be stimulated to make better use of their time at school. The Nawab Bahadur has expressed a wish that any money saved by the amalgamation may be devoted to the furtherance of the proposed Ranchi Arts College Scheme. In Orissa the sons of Chiefs are educated chiefly at the Ravenshaw Collegiate School; while in the Chota Nagpur Division they are mostly sent to the Government High Schools.

Aboriginal Races and Tribes.

receiving education

201. It was stated in the Fourth Quinquennial Review that out of the 62 million aborigines found in the area dealt with in that review, 21 million belonged to Bengal. This figure is scarcely affected by the Partition. The homes of these people are chiefly to be found in the Chota Nagpur, Bhagalpur and Orissa Divisions, the Orissa Tributary Mahals, and the Birbhum and Bankura districts of the Burdwan Division. The aboriginal population of a school-going age, at the usual calculation of 15 per cent., comes to 387,500; and of this number 43,320 (9,342 Christians and 33,978 non-Christians), or 12 per cent. only, are receiving instruction. The increase in the number of pupils per cent. only, are receiving instruction. The increase in the number of pupils during the year under review was 2,021. This is satisfactory, but there is ample room for improvement. Government is much indebted to the various Missionary agencies which have done so much for the education of these people. There is however a wide field which those agencies cannot cover and which will have to be explored by the Education Department as funds become available.

202. As observed in the Fourth Quinquennial Report, Christian aboriginals secure better results in the examinations than non-Christian aboriginals. examination results for the year 1905-1906 are so striking in this respect that I quote them below:-

> Standard II or Lower Primary Standard. Standard VI or Middle Standard IV or Upper Primary Standard. Potel number of pupils attending educational institutions. Number sined sch larships. Number nined sche larships. Caste and ereed of the pupils, Boys, Girls, Boys, Girls, Boys, Girls. Boys. Girls. Boys, Girls, Boys, Giste 8 2 328 162 18 145 Non-Christian Aboriginals 2 \$3,978 48

Examination results.

Indigent Classes.

203. The number of pupils of these classes (both Hindu and Muhammadan) increased from 65,564 in the year 1904-1905 to 66,011 in the year under review, a result which is satisfactory so far as it goes. Indigent Muhammadans require particular care. Of the Hindu indigent classes the Domes, Chandals, Bagdis, Muchis and Haris deserve special attention. Of these five castes alone there are 2,485,211 in this Province; the Bagdis numbering 1,012,600, the Chandals 539,864, the Domes 323,956, the Muchis 357,919 and the Haris 250,872. At the usual calculation of 15 per cent., the population of a school-going age of these five castes comes to 372,781. Here too therefore there is a wide field for improvement as funds become available.

Other Backward Races.

204. These races are shown in the returns as the Tharus, Lepchas, Oraons (i.e., those members of the race that are Hindus) and Paharyas. The population of these tribes is 110,282, and the number of these people of a school-going age, at the usual calculation of 15 per cent., is 16,542. Of this number 237, or 1.4 per cent. only, are receiving instruction. There is therefore ample scope for improvement in this direction also; and one of the first duties to be assigned to the inspecting staff, when it is strengthened, will be that of making a careful survey of the educational needs of the aboriginal races and tribes, indigent classes and backward races referred to in this and the last two paragraphs.

The Reformatory Schools at Alipore and Hazaribagh.

205. Inasmuch as a separate report has been submitted to Government in regard to these schools, it is unnecessary to give any detailed account of them in this report. The most satisfactory feature of the year's working was the marked improvement in respect of discipline and conduct. There is no doubt that this result is due to the policy laid down by Government that the boys are to be treated as if they were at school and not as if they were in jail. In pursuance of this humane and civilising policy, many important reforms are now in process of development. The chief of these are:—

(1) the project for the removal of the Alipore Reformatory School from its present site near the Alipore Jail to a site in the suburbs, where there will be no jail associations and where there will be plenty of room for play-grounds;

(2) the development of the industrial training given at the schools—and especially at the Alipore School—on more advanced and scientific lines:

(3) an improved and more conciliatory system of watch over discharged boys; and

(4) last, but certainly not least, a proposal to replace, as far as possible, the present illiterate guards by resident teachers qualified to influence the lives of the boys for good.

Miscellaneous Schools.

206. While deaf-mutes receive a certain amount of attention from Government, next to nothing is done for the blind. The Calcutta Deaf and Dumb School provides for 39 inmates, and a large share of the expenditure incurred is met by Government. On the other hand, the blind are much neglected. The Aided Anglican Mission School for the blind at Ranchi provides for some 19 pupils; but Calcutta, which might reasonably be expected to take the lead in such a matter, has only two small aided schools, viz., the London Mission Society's school,—called "St. Anthony's School,"—with about 100 pupils, and the Elliott Road "Industrial Home for Blind Children" with about 13 pupils. There is certainly an opening here for beneficence, and it is to be hoped that the opportunity may not be neglected.

CHAPTER XII.

PRIVATE INSTITUTIONS.

Meaning of the

- 207. As stated in the Fourth Quinquennial Review the term "Private Institutions" includes "all schools which have not accepted Departmental or University standards, and do not submit to any public test." Care must be taken not to confuse these institutions with the schools "under private management," whether aided or unaided, which are recognized by the Department and which form the bulk of the public institutions shown in the statistical returns. These institutions are divided in the statistical returns attached to this report thus:—
 - (1) Advanced Institutions; teaching (a) Arabic, (b) Sanskrit, and (c) other Oriental languages.
 - (2) Elementary Institutions; including (a) Koran Schools, and (b) schools teaching a vernacular only or mainly.
 - (3) Other schools not conforming to departmental standards.

Under the head of advanced institutions teaching Sanskrit are included only those Sanskrit "tols" which do not conform to departmental standards. Those which do so conform are returned under the head of "School Education—Special—Miscellaneous," and are discussed in the chapter on collegiate education.

Statistics

unreliable. The Education Department has no control over the institutions in question, and there is no means of checking the figures returned by them. The justification for including such figures in the returns lies in the fact that it is very important to keep some account of these institutions, because they are for the most part schools in the making which may sooner or later be expected to improve their methods of teaching. As shown in the chapter on Muhammadan Education, many of the indigenous Muhammadan schools, called "maktabs," will henceforth be brought under the grant-in-aid system. At present, however, owing to the inadequacy of the inspecting staff, it is impossible for the Department to influence the bulk of the private institutions to any great extent. When the inspecting staff is increased, it will be feasible to do much in this direction; and one of the first duties then to be assigned to the local educational officers will be the preparation of an accurate survey of these schools. There are no great variations to report in regard to the number of schools or pupils in respect of the different classes of private institutions. Schools are reported to have increased from 5,141 to 5,215 and pupils from 54,841 to 57,021.

CHAPTER XIII.

PHYSICAL AND MORAL TRAINING.

Hostels and Messes.

Calcutta Mess Scheme for College Students. 209. As stated in the Fourth Quinquennial Review, hostels may be placed high in the list of influences on which reliance can be placed in moulding the character of students, because the existence of a well-arranged boarding-house affects fundamentally the character of the discipline and training afforded by a college or school and gives greater scope than anything else for the operation of other educational influences. I am glad to be able to say that the scheme inaugurated a few years ago for the improvement of the residence of college students in Calcutta is advancing. As stated in last year's report, Government has taken upon itself the responsibilty of finding mess accommodation for all college students in Calcutta, who are not certified by the Principals of their colleges to be living either with their parents or recognised guardians. According to this scheme each college has its own mess or messes; that is to say, students from different colleges are not allowed to congregate together where they please, but are told off to messes which are under the control of the Principals of their

colleges. On the other hand, the Principals of colleges undertake to recover, as far as possible, from the students in the shape of rent the expenditure incurred by Government. A certain amount of loss necessarily accrues to Government in the carrying out of this scheme, owing to various causes, such as the estimated accommodation taken on lease being more than what is actually found to be required, unexpected loss of students, &c. During the year under review

the loss incurred by Government amounted to Rs. 6,423.

210. Towards the close of the year under review Government intimated to the University its consent to continue the scheme above referred to for four years, that is to say, until such time as the University should be able to take over from Government the control of a matter which primarily concerns that authority rather than Government. At a conference of Principals of colleges held by me in March last it was held that if the scheme was to be a success, the appointment of Superintendents to control the messes was essential. Arrangements have been made accordingly during the current year, the Superintendents having been appointed by the Principals of the colleges concerned; and Government has been asked to contribute an average sum of Rs. 20 a month in each case towards the pay of these officers. The officers selected as Superintendents are professors of colleges, teachers, graduates, or other qualified persons duly approved by the Principals.

211. The scheme is still in an experimental stage, and it would be rash to pronounce upon it. I hope however that it will develop into an orderly scheme which will be of much benefit to the students. Under the new University regulations residence either in hostels or messes and the appointment of resident superintendents at hostels and messes are compulsory. A Students' Residence Committee also is to be appointed, and Government may reasonably expect to receive valuable advice from this body as to the lines on which future developments should proceed. Whatever it may be possible to do in the immediate future, there can be very little doubt that the creation of collegiate hostels is the goal towards which progress points. I trust that a fair share of the money which Government is allotting to the University for the improvement of colleges may be spent

in this way.

212. At the instance of Government a scheme on lines similar to those Mufassal Mess followed in Calcutta has during the current year been initiated at all the College Students. important colleges in the mufassal. For this purpose Mr. Tipping, the officer who inaugurated the Calcutta Mess Scheme, was placed on special duty for three months early in the year. The colleges which have been dealt three months early in the year. The colleges which have been dealt with are the Patna College, the Burdwan College, the Bankura Wesleyan Mission College, the Berhampore College, the Krishnagar College, the Midnapore College and the Ravenshaw College, Cuttack. The Hooghly College is already provided with hostel accommodation. This scheme is of course in its initial stage; but I am satisfied from inspections made by myself that it is a

hopeful project.

213. I hope that during the current year the Department will be in a Hostels for High position to take up the question of developing a proper system of residence for Schools. school-boys. Hitherto the working out of a scheme of residence for college students—a matter which primarily concerns the University—has devolved upon the Department owing to the inability of the University to deal with the matter. It will be a great relief when that authority is able to undertake the control of this subject and leave the Department to deal with that of residence for school boys. This will be a somewhat easier task, because in the case of such students a larger proportion come from the immediate neighbourhood of the schools and live with their parents. In some places what is chiefly required in regard to schools is the provision of hostels so as to enable boys from the interior of the districts to take advantage of higher education. This they are at present unable to do owing to the absence of the necessary facilities. It is for this purpose that an amendment of the Local Self-Government Act is in contemplation so as to permit District Boards to contribute towards the construction of hostels and the payment of hostel Superintendents. Lastly, I may mention that the new University regulations make it incumbent on the authorities of affiliated High Schools to see that all pupils, who are not resident with either parents or guardians,

live either in a hostel or mess under the control of some person responsible to the Head Master of the School for the discipline and well-being of such pupils. I am instructing Inspectors of Schools to draw the attention of Managers of aided High Schools to the regulations and to inform them that the question of hostel and mess accommodation will be taken into considera-tion when applications for grants-in-aid are received.

General remarks as regards hostels for solleges and schools.

214. Some of the messes at which students reside in the mufassal; in places where it has not been possible as yet to organise special arrangements, been visited by me during the course of my tours, and I have no hesitation in saying that immediate reform is called for. It is scarcely conceivable that parents can know of the squalid dens in which their sons reside; and, whether they know or not, a very large measure of responsibility in this matter rests on the authorities conducting schools. The fact cannot be blinked that infinitely more harm may be done to boys in these so-called messes, than good can be done to them in the colleges or schools.

215. The number of hostels increased during the year under review from 346 to 410, and the number of inmates from 12,416 to 14,655. The decline in expenditure from Rs. 9,40,100 to Rs. 8,20,372, which occurred entirely under the head of boarding charges in European schools, is due to causes explained in the chapter on European Education.

216. The number of hostels increased from 310 to 377, the number of inmates from 9,478 to 11,424 and the expenditure from Rs. 3,24,457 to Rs. 3,77,403. The bulk of this money, viz., Rs. 3,36,122, came from private sources, and Rs. 41,281 only from Provincial Revenues and District and Municipal Funds. This is satisfactory in view of the orders of the Government of India that heatels should are for as possible he self-approaching. of India that hostels should, as far as possible, be self-supporting. It is also satisfactory to note that receipts from private sources increased by Rs. 37,728. The large increase in the number of hostels, inmates of hostels and expenditure on account of hostels is due (1) to the introduction of the Calcutta Mess Scheme for college students as described above, and (2) to the general

Social Intercourse between Teachers and Students in Common-rooms and on Play-grounds.

impetus which has been given in recent years to the hostel movement.

217. Perhaps in no department can the good influence of professors and teachers be exercised on students more effectively than in common rooms and on play-grounds. Such influences can however only be brought to bear fully and effectively when social life has been evolved by teachers and students living near each other under the conditions of a residential institution. It is gratifying however to find that even in present circumstances the heads of not a few colleges and schools have been successful in promoting social relations between the students and the staff. This has been notably the case, as regards Government colleges, at the Patna, Madrassa and Sanskrit colleges, and the Bihar School of Engineering.

Physical Exercise and Games.

Physical Direc-

Two important proposals have been under consideration during the year, the one for the appointment of a Physical Director for Calcutta and the other for a similar officer for the Mufassal. The intention is that the officers to be appointed should be men of superior qualifications who have studied physical exercise from a scientific point of view. Such appointments are not uncommon in America, and the proposal as regards the appointment of such an officer for Calcutta came from an American source. I think that these appointments are very necessary, and, as soon as funds allow, I shall make a representation on the subject to Government. We are groping very much in the dark in the matter of calisthenics. The Desi Kasrat, or Indian system of gymnastics adopted from the Central Provinces, is in force in this Province. It is quite impossible, however, without expert advice, to say how far this system is a sound one. Many applications come up from Inspectors of Schools asking for large expenditure as regards the training of gymnastic teachers. I am declining to entertain these applications till we have some authority to whom we can look for advice as to how our money can best be spent:

Statistics as regards boarding-houses, hostels and messes for European and Indian Students.

Statistics as regards Hostels and Messes for Indian Students.

219. There is nothing of special interest to be said this year as regards Games and drill. games and drill at colleges and schools. Physical exercise of some kind is compulsory, but in some cases I have found Head Masters of schools negligent of their duties in this respect. In Orissa the Inspector reports that the organisation of games is said to be hampered by the want of suitable playgrounds. A special report will be called for from him on this subject.

Moral Training.

220. I have already dealt with the training of teachers in Chapter VI. As stated in the Fourth Quinquennial Review, the maintenance of a high standard of discipline depends chiefly on this training and on the character of the persons who enter the teaching profession. The formation of character is of course one of the main aims of education, and this is being very strongly emphasised in the revised syllabus of studies which is now under issue in respect of lower primary schools. Similar stress will be laid on the subject when the revision of the syllabus for the higher standards is undertaken. The revised syllabus above referred to begins with an Introduction which illustrates what I have said above, and I cannot do better than cite the two concluding paragraphs, which run thus:-

"Above all school life must prevent children from forming bad habits, and this it can only do by training them in good habits and, if possible, in good conduct, by which is meant something wider than the mere cheerful observance of school regulations. In the matter of this moral training the most important factor will be the habitual conduct of the teacher in the school. If he is thorough, patient, kind but firm, and scrupulously fair, these traits will evoke similar traits in his pupils, and will give point and force to any moral instruction he may attempt. A teacher who is obviously slipshod and lazy, discoursing to children about the value of industry and thoroughness, is an absurdity which cannot but prove morally disintegrating to a child. Stories in readers designed to inculcate morals tend, if silly, as they frequently are, to make moral instruction ridiculous. Even if they are good, they are of little value unless they are backed by personal example.

if silly, as they frequently are, to make moral instruction ridiculous. Even if they are good, they are of little value unless they are backed by personal example.

"The every-day incidents of school life will enable the teachers to impress upon the children the importance of punctuality, of good manners, of cleanliness and neatness, of cheerful obedience to duty, of consideration and respect for others, and of honour and truthfulness in word and act. Children will notice such details in the conduct of a teacher as punctuality, order, neatness and gentleness, and they will imitate what they see and hear. They are quick to observe: and if the teacher's conduct is in these respects defective, his example must almost certainly have a disastrous effect on the habits of the pupils. Thus, the punctual and methodical performances of duties, even in matters of trivial routine, will impress upon the children better than any lesson the importance of orderliness; and the good habits of the teacher will be even more powerful than his express requirements in shaping his pupils for the proper conduct of life."

In the course of this chapter the influence of the teachers employed, the influence resulting from the nature of the teaching imparted, and the influence of hostel life have all been mentioned. As, however, the Government of India pointed out in a letter issued during the year under review in reply to a memorial from certain residents of this Province, the greatest of all influences is that of home life, that is to say, of parents, relations and guardians. As that Government observed, that is an agency entirely independent of Government, and the State can neither call it into existence nor direct its appropriate and it rests with the Indian people themselves to see that a proper operation; and it rests with the Indian people themselves to see that a proper moral atmosphere prevails in the Indian home.

Discipline at Colleges and Schools during the year under review.

Two grave breaches of discipline occurred at the Presidency College Breaches of soon after effect was given to the Partition. Discipline at the Sibpur Civil discipline. Engineering College also suffered at the same time. It is reported that when the students joined the College in November 1905 they were suffering from the effects of political agitation, that a spirit of turbulence manifested itself, and that two of the ringleaders had to be expelled before order could be restored. The grant-in-aid of the Garbhawanipur High English School in the district of Howrah has been withdrawn on account of a bad case of boycotting by the students of that school. At the Hooghly College two students were punished for unruly behaviour in a public thoroughfare. At the Krishnagar College discipline has not been satisfactory. The district of Khulna also came unfavourably to notice on account of

disturbances caused by students; and the Khulna Zillah School and the Daulatpur High School were deprived of the privilege of competing for

Government scholarships for a year.

Control of school 222. The question of the control

222. The question of the control of masters of schools over the conduct of boys beyond the school premises has recently formed the subject of discussion in Bombay, and an important Press Note has recently been issued by the Government of that Presidency, an extract from which, as reported in the newspapers, I quote below. It is a ruling of much importance.

"It is quite a mistake to suppose that the Head Master's authority over day boys does not extend beyond the school premises. In certain cases it is obvious that he is bound to take notice of miscanduct, and in other matters though the necessity for his interference may not be so obvious, it is still unquestionable that an order given to a pupil must be obeyed. If any parent or guardian is dissatisfied with any order of the kind, it is always open to him to apply to higher authority, in which case he may be quite sure of a careful enquiry into the circumstances. But he should never counsel disobedience, which can only injure the boy whose welfare he desires to promote. Such disobedience would not be tolerated in any well regulated school in England, and cannot, in justice to the pupils, be permitted in this country. The importance of discipline, whether in the family or in the school, is a matter which can hardly be disputed, and the small minority who take a different view cannot reasonably expect others to agree with them. When disobedience occurs, it must be punished by the ordinary school methods."

CHAPTER XIV.

EDUCATIONAL CONFERENCES.

Revision of the scheme of vernacular education.

masters.

were those in connection with the revision of the vernacular scheme of education which was brought into force in the year 1901, in so far as it affects lower primary, and especially rural lower primary, schools. This subject had been considered in the year 1904 by a conference specially convened by the Lieutenant-Governor. The results of that conference formed the subject of the Resolution of Government No. 658, dated the 7th February 1905, in which the public was invited to submit criticisms in regard to the scheme proposed. The replies received were then considered by a further conference, appointed by His Honour, which submitted a report to Government on the 3rd August 1905. The working out of the details of the scheme, as provisionally approved by the conference just referred to, was then referred to a special committee, which brought its labours to a conclusion at the close of the year under review. The views of the special committee were submitted by me to Government with my letter No. 86T., dated the 14th May 1906, and the orders of Government generally sanctioning the proposals made by the committee were received in Government letter No. 1800, dated the 5th July 1906. Active steps are now being taken to carry out the necessary reforms. A full account of the changes to be initiated has already been given in the chapter on Primary Education.

Conference at Darjeeling. 224. An important conference was held at Darjeeling shortly after the close of the year in connection with a proposal to extend primary education amongst the hill population. The results of this conference have been mentioned in the chapter on Primary Education.

Mufassal educational sonferences. 225. Numerous useful conferences were held during the year by educational officers on various matters demanding concerted action. It is unnecessary to refer to the subjects discussed at these conferences; but I am glad to notice that officers of all grades are fully alive to the advantages of meeting together to deliberate over educational questions in which special difficulties are

Delegation of powers to Inspectors of Schools.

226. I hope during the course of the current year to be able to hold a conference of Inspectors of Schools with the object of deciding in what directions a delegation of the powers of the Director is at present feasible. The stress of work has been so great ever since I joined the office of Director in January 1906 that I have not as yet been able to convene a meeting. Probably it will not at present be possible to effect any

large delegation of powers, because of the well-known inadequacy of the Inspectorate. A beginning should however be made as soon as practicable; and, when the Inspectorate is strengthened, a further devolution of powers will be considered.

CHAPTER XV.

TEXT-BOOK COMMITTEES AND THE CALCUTTA SCHOOL BOOK SOCIETY.

The Central Text-Book Committee.

227. The working of the Central Text-Book Committee has recently been adversely criticised, the main objections raised being

(1) that the preliminary examination of text-books which is required under standing orders before their submission to the Text-Book Committee should not, as heretofore, be conducted in a confidential manner, but that the names of the persons consulted should be made public,

(2) that members of the Text-Book Committee should be remunerated

for their work, and

(3) that the exclusion from the Text-Book Committee of persons who are authors or who have any interest in the production of text-books has the effect of depriving the Committee of the services of the very persons whose services would be of real use.

These questions are now under my consideration in connection with a proposal which has been made by certain publishing firms in Calcutta that Government support should be withdrawn from the School Book Society on the ground, that the operations of the Society interfere with private trade. The functions of the School Book Society and the Text-Book Committee are interconnected, and it will be convenient to deal with all the

questions raised together.

228. Meantime, I wish merely to say on the present occasion that I think that the functions of the Text-Book Committee have been somewhat misunderstood. These functions are strictly limited to advising Government as to which of certain books presented to them for examination are fit to be used in schools. That advice in practice merely amounts, as far as I can gather, to recommendations being made in favour of all books with any pretence to merit or suitability. The Committee has no power, even if it considers that the books submitted to it for examination are not as good as they should be, to take steps to secure the production of suitable books. In short, the production of text-books has been left to unguided private speculation. As shown however in the chapters on Secondary and Primary Education, this system has signally failed in respect of the production of suitable text-books for certain classes of schools, and Government has decided to bring out certain books itself, by the exercise of a power which is specially reserved to it under the rules. This does not of course mean that Government intends to monopolise the production of text-books. It will merely give the lead by showing the kind of books which are required; and, if private enterprise can produce equally good or better books, these will be accepted.

The Calcutta School Book Society.

229. The sales of the Calcutta School Book Society amounted during the year under review to Rs. 1,33,777, as against Rs. 1,66,338 in the year 1904-1905.

A. EARLE.

Director of Public Instruction, Bengal.

EDUCATION-GENERAL TABLE I.

Abstract Statement of Colleges, Schools, and Scholars in the Lower Provinces of Bengal for the Official year 1905-1908.

(For details, see General Table III.)

	AREA AND POPULATION.	TION.					PUBLIC I	PUBLIC INSTITUTIONS.	DNS.			PRIV	PRIVATE INSTITUTIONS	TOWN			
			Institutions and scholars.		Collegiate education.	iste ion.	School educa general,	School education, general.		School education, special.	Total.				Grand	Percentage of-	Į
Total area in square miles.	Number of towns and villages.	Population.			Arts colleges.	Profes- sional colleges.	Secondary schools.	Primary schools.	Training schools.	All other special schools.		Advanced.	Elementary.	Total.	100		
1	6	8	•		ю	9	,	90	6	01	п	81	13	14	31	16	
			Selections.	1	8	19	1,471	83,673	n	222	32,533	1,669	3,501	6,170	41,003	=	C 27-30
124,428, including) 11,387, square miles of Orissa Tributary States and 3,764 square	Towns, including	Males 26,124,820 Females 96,545,049 Total 52,665,889	Institu For formales	1	•	1	8	2,861	20	а	8,948		*	\$	2,993	to number of commer of commer of commer or commercial villages.	
niles of Sambal- pore, and exclud- ing the Rajshahl Division minus the	municipalities 143 Villages 150,002- Total 150,148	Number of pop school-going	Total	1	3	91	1,534	36,533	138	527	38,781	1,669	3,546	5,818	43,996		08.63
of Malda and the Dares of Malda and the gong Divisions.		7,900,480	Meles.	1	8,668	2,143	350,056	888,568	1,784	12,513	1,061,518	161,11	31,261	64,468	1,116,970	Male scholars to male po- to pulation of school-going	17.88
	e in the second		Pemalos	22 F	92	TI.	6,583	107,021	28	201	113,739	188	3,409	2,569	116,308	Female schol- ars to female population of school-going age.	8.8
			Total	i	8,678	2,159	156,648	995,589	2,672	12,514	1,175,257	17,351	89,670	67,091	1,282,278		15.20
& 400 Per	e de la composition della comp	Posts		5 0/ 1 0 1968 /		Constitution Constitution Mrs. gen.	natus Laser Santa				24/4"						

EDUCATION-

Abstract Return of Expenditure on Public Instruction in the Lower

(For details, see

				Тот	AL D	IRE	CT I	XP	ENI	ITU	TRE	ON	Pu	BLIC	I	NSTR	UCI	ION.			
•		C	olleg	ate ion.	edu-	1	Sch	ool	edu	cat	ion,	1	Scl	hool	ed	ucati	on,				
		A -fe acliforate	Arm connegue.		Professional col-		Secondary	schools.			Primary schools.		T. Contraction	I raining schools.		All other special	schools.			Total.	
	1		3		8	1		4			5			6			7			8	
	(For males		Rs.		Rs.	28		Rs.	356	24,	Rs		1,	Rs 34,1		4,	Rs	478	69,	Rs.	
1.—Institutions	" [" females	1	3,977				4,	,05,2	293	3,	27,4	94		70,5	58		2,	691	8	,20,8	313
	Total	7,6	5,69	4	,69,1	28	80	,87,	149	27,	78,5	507	2,	05,0	038	4,	,88,	16 9	77	,93,6	686
pendite 2-17, pendite (b) Percenta pendit	age of provincial ex- ure, included in columns to total provincial ex- ure on public instruction ge of district fund ex- ure, included in columns to total district fund		8		10	0.8		1	4-9			7.5			4-4			8:4		Б	4-1
expend	iture on public instruc-							1	3.1		5	88			.1			.8		7	72-9
expend umns cipal public (d) Percents ture, 2-17	iture, included in col- 2—17, to total muni- fund expenditure on instruction age of total expendi- included in columns , to total expenditure olic instruction		1		••	4.8			6 9			4.9			·1			8 6			36·6
	A DESCRIPTION OF THE PROPERTY			1						1									65- 5		
	NNUAL COST OF EDU- COH PUPIL IN— Cost to Provincial revenues	Rs.				P. 8	Rs.	7	O	5	0	2	Rs.	11		Rs.				11	
	C municipal funds		•	-			0	_	5	-	1	0	0	10					0	1	2
Total cost	from all sources	280	1 11	447	4	11	42	7	5	5	8	1	82	6	6	142	9	8	81	7	6
Municipal and District Board institutions.	Cost to Provincial revenues Cost to district and municipal		2 10					3			0			••							
Total cost	from all sources	163	8 8	-		-		5		-		-			-	-		2 0		7	-
Aided institu-	Cost to Provincial revenues Cost to district and municipal funds	22 1	15 2	00		-	3		5	0	4	8	29	6	2	5	7	10	0	10	10
Total cost fr	rom all sources	131						11			1	-		2	-		200	10		0	-
Unaided instituti	one-Total cost from	64		-	14	10	1	12	-				42		0		9140	3		14	-
Total cost to Promuse funds.	vincial revenues nicipal and district		4 0 5 10		14	10	8	4 2	10	0 0	4 13	4	57 0	1 7	7			11		10 13	
(D-(-) (from all sources	185 1	4 3	914	0	1	20		-	-		-	-	-	-8		-	9	-	0	-

SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 26, 1906. 1959

GENERAL TABLE II.

Provinces of Bengal for the Official year 1905-1906.

General Table IV.)

1	COTAL I	NDIRECT	EXPENDI	TURE ON]	PUBLIO I	NSTRUCTIO	N.	public	
University.	Direction.	Inspection.	Scholarship.	Buildings.	Special grants for furniture and apparatus.	Miscellaneous.	Total.	Total expenditure on planstruction.	REMARKS.
9	10	11	12	13	14	15	16	17	- 18
Rs.	Rs. 92,366	Rs. 5,17,294	Rs. 2,10,960*	Rs.	Rs.	Rs. 9,88,141	Rs. 32,31,663	Rs.	*
1,60,944	92,366	5,17,294	2,10,960*	11,52,803	1,09,155	9,88,141	32,31,663	1,10,25,349	
•••	2.7	8-6	4-2	25.7	1.4	3.3	45-9	100.0	
••	••	18.2	8.1	-5	-7	4.6	27·1	100-0	
		8.6	. 8.	1.8	1.2	6.0	18.4	100-0	
1.2	-8	4.7	2.0	10-4	1.0	8.9	29-3	100-0	

^{*} Excluding Rs. 9,941, Assam Government scholarships, and Rs. 388, Central Provinces Government scholarships

EDUCATION -0

Return of Colleges, Schools and Scholars in the Lou

									PU	BLIC 1	NSTI	TUTIO	NS		
					Un	DER PU	BLIC MAN.	AGEMENT	r.				_ .		
		Manag	ged by Go	vernmen	t.	Man M	aged by Di unicipal B	strict or oards.		Maint	State	y Nati	ve	Aided 1	M M
	CLASS OF INSTITUTION.	Number of institutions.	Number of scholars on the rolls on 31st March.	Average number on the rolls monthly during the year.	Average daily attendance.	Number of institutions.	Number of scholars on the rolls on 31st March.	Average number on the rolls monthly during the year.	Average daily attendance.	Number of institutions.	Number of scholars on the rolls on 31st March.	Average number on the rolls monthly during the year.	Average daily attendance.	Number of institutions.	
•	1	2	8	4	5	6	7	8	9	10	11	12	13	14	1
	ARTS COLLEGES.	8	1,334	1,897	1,216	2	79	84	64		La Servi			6	A STATE OF STREET
EDUCATION.	Colleges for Professional Training. Law	4 1 1	63 443 321 23	61 549 342 24	39 539 281 18	1 	27 	29	22				-	:	Section 2
	Total of Colleges	15	2,184	2,373	2,093	8	106	113	86					6	
	SECONDARY SCHOOLS. (For Boys- High schools Fnglish	38 4 1/	9,396 454 1,194	9,183 461 1,077	7,273 392 813	3 29 104	1,279 2,220 6,528	1,209 2,130 6,134	972 1,678 4,8-2	18 3	349 1,332 176	314 1,238 156	247 919 102	188 478 263	,
FRAT	For Girls- Total for Boys' Schools	59	11,054	10,671	8,478	136	10,027	9,473	7,502		1,857	1,708	1,268	929	
PRUCATION-GENERAL	High schools English Middle ,, { English	1 1	181 117	161 84 	134 79	Ξ		· E	Ĕ.	Ξ		::	Ξ	12 87 9	ŀ
4770	Total for Girls' Schools	2	298	245	213				***					58	
	GRAND TOTAL OF SECONDARY SCHOOLS FOR BOYS AND GIRLS	61	11,852	10,916	8,091	136	10,027	9,473	7,502	23	1,857	1,768	,268	987	-
SCHOOL	For boys {Upper Primary {Lower ,	90	3,928	3,887	2,754	97	8,476 412	8,229 373	6,458 296	7 342	301 6,063	307 5,367	1)5	2,609 24,158	
W.	Total Primary Schools for Boys	102	4,042	4,006	2,843	102	8,888	8,602	6,749	349	6,364	5,674	4,415	26,767	1
	For girls {Upper Primary {Lower ,	6	435 18	416	336 14	=	:::				219	207	155	196 2,280	
	Total Primary Schools for Girls	7	453	432	350		•••	***		12	219	207	155	2,426	
	KAND NOTAL OF PRIMARY SCHOOLS FOR BOYS	109	4,495	4,438	3,198	102	8,888	8,602	6,749	361	6,583	5,881	4,570	29,193	
	Schools FOR SPECIAL INSTRUCTION. Training Schools—	111		1,464										6	
	(a) For masters	i	1,560 20 248	20	1,156							-	=	18	
PECIAL	Law schools	***	465	518	461		=					-		Ξ,	
	Engineering or Surveying schools	1	216 81	225 69	59	6		121	87					25	
TO THE PARTY OF TH	Agricultural schools	1(b) 3	65	82 568	71					::		=		1 3	
	Other schools Reformatory schools	2	345 68	346 68	396 332 41		=	=	= .	8	120	106	64	229	
8	Total	126	3,628	3,561	2,934	6	116	121	87	8	120	106	64	280	•
6520	TOTAL SCHOOLS OF PUBLIC INSTRUCTION	311	21,659	21,288	16,911	247	19,137	18,309	14,421	392	-	-	5,902	30,472	-

PRIVATE INSTITUTIONS

ADVANCED, teaching—

(a) Arabic or Persian

(b) Sanskrit

(c) Any other Oriental Classic

ELEMENTARY, teaching a Vernacular only or mainly

3. ELEMENTARY, teaching the Koran

4. OTHER SCHOOLS not conforming to Departmental Standaria

TABLE III.

inces of Bengal for the official year 1905-1906.

MA	NAGEMI	ENT.								WDED OF	eguer : T-	OF 91-	Mara					
by 1	District	346.1	Unai	ded.	2 10 00 00 00 00 00 00 00 00 00 00 00 00	1000	the 31st March.		NU	MBER OF	SCHOLARS	ON 3181	MARCH	LEARNI	(-			
T			the	rolls			n the 31		English,	. \	A classic	al langu	age.	A verna	cular lang	ruage.	Schools.	School
	Average daily attendance.	Number of institutions.	Number of scholars on rolls on 31st March.	Average number on the representation of the reservent of	Average daily attendance	Grand total of institutions	Grand total of scholars on	Boys.	Giris.	Total.	Boys.	Girls.	Total.	Boys.	Girls.	Total.	Number of girls in Boys'	Number of boys in Girls' Schools,
1	17	18	19	20	21	22	23	24a	246	24	25a	250	25	26a	266	26	27	28
8	1,157	(a)18	2,881	2,762	2,196	84	5,675	5,656	19	5,675	4,026	2	4,028	•••	7	7		-
	=		1,282	1,182	748	12 1 1 1	1,372 443 821 23	1,372 426 321 23	₁₇	1,372 443 321 23	<u> </u>	::	::	<u> </u>	=	E		::
2	1,157	25	4,163	3,944	2,944	40	7,834	7,798	36	7,834	4,026	2	4,028		7	7	17	
24	23,520 25,810 12,-19	165 119 40	38,112 7,487 2,466	37,257 7,169 2,389	28,045 5,518 1,913	396 648 427	80,608 44,246 25,697	74,536 22,514 4,834	1 41 	74,537 22,555 4,834	38,312 570	8	38,312 578	48,519 42,717 25,513	7 169 184	48,526 42,886 25,697	7 202 184	::
-	1,2 0	324	48,015	46,815	35,476	1,471	1,566	101,884	1,298	1,495	38,882	512	38,890	116,749	517	117,109	394	20
	2,887 426	3	139	120	112	38 12	3,813	6.07	2,341	2,848	138	758	1,434	168 76	1,291 642 	1,459 718 2,723		62
-	65,862	3 327	48,154	120	35,589	1,534	156,648	102,588	3,693	106,323	39,046	1,278	40,324	117,022	2,810	119,832	394	8
	88,932 511,456	-	2,641 120,699	2,446 10s,017	1,990 91,487	2,872 30,800	134,017 795,620	341 88	141 8	482 96	195 2,3u9	16 158	211 2,467	129,017 757,065	4,651 38,445	-	38,453	-
-	600,388 6,841 34,666	6,352	214 7,262	110,463 193 6,607	93,477 162 5,486	207 2,654	929,637 10,527 55,425	277 44	595 86	872 130	2,504	1 273	2,678 3 276		9,423 53,710	9,702 55,281	43,235	1,
-	41,507	416	7,476	6,800	5,648	2,861	65,982	321	681	1,002	5	274	279	1,850	63,133	64,983	-	2,
-	641,895	6,768	130,816	117,263	99,125	86,583	995,589	750	830	1,580	2,509	448	2,957	887,932	106,229	994,161	43,235	2,1
3 7	207 627	1 1 3 3	21 32 211	18 30 195	28 166	118 20 4	1,808 864 459	68 21 495	427 9 2	63 448 3	294	=	294	1,756 28 456	52 800 	1,808 828 456	52 3 ₂₀	2
8 8 8 8 7 8	21 420 75 2 137	7	566 105 109 528	110 105 478	84 91 423	6 3 41 6 1 13 2	243 998 269 3 1,248 345 7,918	192 154 253 283 6 174	 16 25	192 154 269 283 6 199	1,212	 	1,212	51 815 3 149 345 967	29 	51 844 3 149 345 1,100		
1	4,894	239	4,844	4,651	3,760	665	15,186	1,641	479	2,114	8,343 53,924	43	8,386	5,086 1,010,040	1,032	6,118	168	3,0
1	713,808	7,359	187,977	172,798	3 141,417	38,781	1,175,257	112,777	5,080	117,851	Colona		1					,
s s la sa la sa la				-		984 735 2,737 5 450 16 814	10,744 6,607 26,774 45 6,040 287 5,388	12 37 1,485	 3 18	12 37 37 1,488	10,368 6,602 92 5,583 36 429	398 210	10,528 6,602 92 5,983 246 429 285	216 5 26,289 3 205 11 4,824	440 42 29 41 134 1,142	216 5 26,729 45 234 52 4,958 1,142	160 440 406 	1111 17 11
SEC. 250			u	Doda 1		5,215	57,021	1,534	21	1,555	23,112	1,058	24,165	31,553 1,041,593	1,828	33,381	1,140	8,1

of furnished any return.

Andard equal to intermediate or First A-ts examination.

EDUCATION-GENERAL TABLE IIIA.

Number of Scholars on the 31st March 1906, in the Lower Provinces of Bengal, classified according to sex, race or creed, for 1905-1906.

		NOT PERSON						Euro- peans and	Native Christ-	-		Muham.	Bud-	Parsis,	Others.	To
	, <u></u>							Eura- sians.	lans.	Brah- mans,	Non- Brah- mans.	madans.	dhists,	Tarbia,	Others,	10
400	Cor	LEGIATI	EDUCAT	rion.	4.0	- 101			et".							
		Arts (Colleges.													
English			Male Female	***			=	28 3	77	1,885	3,292 12	861	6	8	•	
o	leges f	or Profes	sional Tr	ainin	o.											
Law			{Male Female					4	7	465	823	70	2		1	
Medicine			Male Female		=		:::	65 12	8 4	80	248	"15	··· 1		Ξ,	
Engineering			Male	***		:::		47	3	106	155	9		1	•••	
Agriculture			Female Male Female	::		***		1		8	··· ₁₉					
			C Female			Cotal		160	102	2,519	4,549	455	9		6	-
Ваттоо	r. Epuc	ATION-	GENERAL	D.								e hand	og tilg	100	Total C	
		ary Scho						et Cape		4000		Alla		11100	CLL CONTROL	
Boys-								1,609	1.491	23,200	46,989	h aha	- 20			
High Schoo			Male Female	:::				1,009	1,431	5	46,989	7,072	96		140	
idle Schools-		e Salarina	Male Female			•••		1,169	902	10,442	26,944	4,192	4	20	370	
English							:::	32 1	20 380	6,022	16,173	2,446	::	:::	491	
Vernacular or Girls—			Female	•••				••		59	123	2				
High School	s .		Male Female	:::		:::	:	150 732	18 208	132	262	3	··· 1	13	10 15	
iddle Schools-	_		Male					365	65	33	78	3	. 2	8	***	
English			Female			***		1,787	653 25	150	501	11	1	26	73 112	
Vernacular	***		Male Female				:::		326	59	253	4	***		2	
					3	rotal		5,795	4,028	40,177	91,465	13,736	104	130	1,813	1
	Prima	ry School	la.							780						
For Boys			Male Female	***	=	:::	::	329 149	7,642 1,130 279	94,937 7,390	623,070 30,535	128,416 3,286	296 16	1	31,711 728	8
For Girls			{ Male Female	***	::	:::	::	290 600	3,372	257 12,948	1,173 41,571	4,740	8	13	25 535	
						Total		1,368	12,423	115,832	696,350	136,571	314	32	32,999	9
Вснос	L EDU	CATION-	SPECIAL Male						188	458	926	100			1 _	
Training So			Female Male					26 2	797	6 163	55 277	139	,	=	71	-
Schools of A	rt	***	Female (Male				***	8			***	9		=		
Law School		••• •••	Female			:::	:::		9	310	566	=_	= :			1
Medical Sch Engineering			Female				***	2	15	64	3	119	1	2		
Schools.	, and Do	a vojing	¿ Female				***			***	155	24				
Industrial S	chools		Male Female	***					195 15		474	209	-	-	34	
Commercial	Schools		Male Female		***			24 16	3	87	120	19				-
Agricultura	Schools		{Male Female	***	***	***				-	3		=		::	1
	Madrass		Male Female	***		:::	***		***		=	1,248	***	-		
Other Schools	Reforms		Male Female	***	::		=	6	5	9	200	119			6	
	Miscell Bohoo	neous	Male Female		***	***	***	1	92 31	6,494	868	328	··· 1	1		1
	Dolloo	1.06.7	Lomaio		9	Cotal		84	1,353	7,652	3,684	2,200		3	116	-
	Total o	of Schola	rs in Put	olic I				7,407	17,906	165,910	796,048	153,052	431	169	34,334	1,17
	PRI	VATE IN	STITUTIO	ONS.		W. H. P.										-
Advanced T	MARKET AND THE PARTY OF		Male						1400	29	2,213	0.740				١,
(a) Arabi			Male Male	***	***	=	=		<i></i>	6,492	1 115	8,312 159	=	=	=	1
(b) Sansk		Oriental	Female		***	***	***	***	:::	•••	•••	=		=	::	
Classi	0.		Female		=	=	Ξ	Ξ		=	=	==	2	=	=	
Blementary	Teachin	g-A Ve			or ma	inly.—			(k)							
For Boys			Male Female		***				95 14	2,706	20,818 348	2,550			165	1
	THE RESIDENCE		Male			***	***			7	3 35			:::		
For Girls	***	***	Female	***	***	***	***		***			***	m			

SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 26, 1906.

1963

GENERAL TABLE IIIA .- concluded.

Number of Scholars on the 31st March 1906, classified according to sex, race or creed, etc.—concluded.

									Euro-	Native	Hn	NDUS.					
	и								Bura- sians.	Christ- ians.	Brah- mans.	Non- Brah- mans.	Muham- madans,	Bud- dhists.	Parsis.	Others.	TOTAL
PB	IVATI	e Ins	TITUTIO	ONS-c	oncla	1. 0						1					
Elementary '	Teach	ing—7	he Kor	an onl	y—												
For Boys			J F	emale								4	5,630				
For Girls			{ }	fale emale	::	Ξ	::	::	=	Ξ	=	:::1	405 42 245	::	::	Ξ	5,634 406 42 246
Other schools	not e	onfor	ming to	Depar	rtmer	ital S	tandar	rds—	1900 - 10a								
For Boys		•••	{ M	ale					1	254 91	697	2,849	1,418	5.*			
For Girls		••	{ M	ale emale	:::		::	::	=	8	334	766	6 34	2	:	24 	5,248
	Total	al Sch	olars in	Priva	te In	stitut	ions		1	462	10,320	27,187	18,833	7			1,149
					GRAZ	D To	TAL		7,408	18,368	176,230	823,235				191	57,021
								7		201.00	110,200	020,230	171,905	438	169	34,525	12,32,278

EDUCATION-

Return of Expenditure on Public Instruction in the Lower Pro-

OBJECTS & BEPHEDITURE.	Provincial revenues.	ferred		ana	ged by G	overni	B 75.5	.	Mar	Under			OF STREET		is.	•	dalo	tained
	Provincial revenues.	ageneral		ana	paid	overni	B 75.5		Man	naged by	Distri	ct or Mu	nicipa	I Board	18.			Donas
	Provincial revenues.	freedo	,		paid		Name and Address of the Owner, where the Owner, which is the Owner, which is the Owner, which is the Owner, where the Owner, which is the O	100 KM V 1996 A	Sub Line							- 200	0	70
1			District Iunus.	Municipal funds.	Fees, including fees from Mohsin Fund	Subscriptions.	Endowments and other sources.	Total.	Provincial revenues.	District funds.	Municipal funds.	Fees, including fees paid from Mohsin Fund.	Subscriptions.	Endowments and other sources.	Total.	Native States' revenues	ls in	Municipal Funds raised in Native States.
	2		8	4	- 5	6	7	8	9	10	11	12	13	14	15	16	17	18 1
	Rs	R	s.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Re. B
DIRECT EXPENDITURE. COLLEGIATE EDUCATION.	7 731.03									, /o.+ · .		912						
Arts Colleges.	2,42,6	14 .			1,46,111		2,609	3,91,834	855	900	1,161	4,888	175	5.784	13,713		-	
Colleges for Professional Training.					4,751			4,751				1,905			1,905	::		
Medicine	2,29,9 1,29,2 8,0	54		:	34,854 22,405 1,040	***	6,262	2,64 8-8 1,57,91-6 9,097		=		1,905	=		1,9:5	-		
Total for professional Colleges	3,67,2				2,09,161		8,871	4,36,572 8,27,906	855	900	1,161	6,793	175	5,734	15,618	100	-	
Total for Colleges	0,01,0																	
For Boys -	1.016	63		-	2,13,738	4,120	3,829	3,73,655	1,800	250		25,220 10,574	3,527	21	27,270 24,207	7,172	:	
High Schools English Middle ., { Vernacular	1,51,9 28,6 7,4	98		323	9,047 1,946	368	33	37, 43 10,168 4,21,566	1,964	9,903 36,253 45,706	782 930 1,712	51,145	6,771	21 42	55,863	1,047	-	
Total for Secondary Schools for Boys	1,88,1	62		328	2,24,731	4,488	3,862	4,21,000	7.									
For Girls— High Schools English Middle \{\text{Vermacular}	16.	195		:::	3.890 3,170		 	20,641 21,365	::	=	=	=	=	::	<u>:</u>			
Total for Secondary Schools for Girls	34,	46		***	7,060	-		42,006	1,964	45,706	1,712	F1,145	6,771	4:	1,07,340	22,511	*	7
Total Secondary Schools for Boys and Gir	18 8,23,1	08		S23	2,31,791	4,488	3,862	4,63,572	1,007		-							
Primary Schools. For Boys- Upper Primary	19,6		224	48	1,809 75	5	15	21,757 586	126	25,363 402	679 606	2,361			28,529	5,064		12,5 13,0
Total for Primary Schools for Boys	20,1	55 2	236	45	1,884		15	22,343	126	25,765	1,285	2,482			29,658	5,681	-	
For Girls-	2,0	87						2,087								480		
Upper Primary		12						2,009						<u> </u>		480		
Total for Primary Schools for Girls Total Primary Schools for Boys and Girls	22,5	-	236	48	1,884	Profession 1	15	24,442	126	25,765	1,285	2,482	•		29,658	6,161	-	-
SCHOOLS FOR SPECIAL INSTRUCTIONS																	da i	
Training Schools for— (a) Masters (b) Mistresses	1,14,5	59 1	949	::	4,403		93	1,20,411 1,886	::	=		::	::	:::				1 1 1 1
Schools of Ark	59,1 75, 83, 4,1	194 365 524		111111	5,947 13,939 4,716 482		508 1,556 8.0	65,455 89,961 59,637 5,836		4,812	240	1,007		482	6,817	:	11.11.1	\$11111
Peter Schools Mare issues Schools	59,6	02			2.727	::	4,987 2,752 457	57,667 37,181 457	::	=	=	=	=		6:41	1,659	111	11 11 11
Total	3,74,		949	Ξ	82,234	4,500	11,183 23,931	4,18,491	2,945	4,812	4,398	1,007	6,946	6,258	1,59,157	AND WAY		14

TABLE IV.
engal for the official year 1905-1906.

UTIC	NS.			•									TOTAL B	XPENDI	TURE F	ROM-			
				UNDER	PRIVATE	MANAG	EMENT.					Ī			Mohsin		OTHE UKCES		
	Aided 1	y Govern	nment or	by Distri	et or Mu	nicipal B	oards.		Una	ded.	- A A A-	50.00			from M		Pub	lic.	
Total.	Provincial revenues.	District funds.	Municipal funds.	Fees, including fees paid from Mohsin Fund.	Subscriptions,	Endowments and other sources.	Total,	Fees, including fees paid from Mohsin Fund.	Subscriptions.	Endowments and other sources.	Total.	Provincial revenues.	District funds,	Municipal funds.	Fers, including fees paid f	Prirate,	Native States' Revenues.	Imperial contributions.	GRAND TOTAL.
22	28	24	25	26	27	28	29	30	31	32	33	34	85	36	87	38	39	39a	40
Rs.	Re.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Ra,	Rs.	Ra.	Rs.	Re.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
	-81,950			59,455	43,437	48,457	1,82,909	1,01,232	4,598	71,819	1,77,649	2,75,410	900	1,161	8,11,386	1,76,829			7,65,69
11:11	::		=		=	=		29,325		1,326	30,651	2,29,954 1,29,249 8,057 3,67,260		=	35,981 34,854 22,405 1,040	1,326 6,262 7,588			37,56 2,64,80 1,57,91 9,09
	31,950			59,155	43,437	48,417	1,82,999	1,30,557	4,598	78,145	2,08,300	6,42,679	900	1,161	4,05,666	1,86,417			12,84,82
7,972 14,979 1,082		2,619 89,2:4 23,727	6,237 5,464 2,019	4,56,903 1,88,231 62,315	79,860 1,06,818 31,658	40,678 27,055 3, 11	7,02,474 4,55,031 1,37,726	5,74,303 29,320 4,716	52,352 32,200 6,656	1,21,691 9,584 3,484	7,48,326 71,104 14,856	2,69,945 74,937 21,858	2,869 91,427 59,980	6,237 6,244 3,272	12,70,964 2,37,259 84,358	1,79,205		4 ::	18,59,60 6,02,40 2,19,60
23,433	1,75,714	1,08,570	13,718	7,07,449	2,18,336	71,444	12,95,231	6,08,339	91,188	1,34,759	8,34,286	3,65,840	1,54,276	15,758	15,92,581	5,30,895	82,511		26,81,85
111	48,089 59,556 2,541	120 108	384 1,333 839	85,021 73,066 323	15,900 41,568 -2,201	23,226 12,998 142	1,67,620 1,88,641 5,653	₅	1,368	::	 1,873	59,840 77,751 2,541	120	384 1,333 338	98,91 76,23 32	51,560	***	=	1,88,5 2,10,0 7,1
23,433	1,05,186 -2,80,990	228 1,08,798	2,055 15,773	1,58,410 8,65,859	2,78,005	86,806 1,07,810	3,61,914 16,57,145	6,08,344	1,368	1,34,759	1,378 8,35,659	1,40,182 ,5.05,972	1,54,504	2,055	Andrews	-	-		30,87,
893 18,554 19,447		1,37,197 4,71,216 6,08,413	40,608	1,85,235 8,91,917 10,77,152		-	4,64,357 16,92,292 21,56,649	3,121 1,74,206 1,77,327	5,262 13,002 18,264	2,546 24,779 27,825	10,929 2,11,987 2,22,916	72,878 95,975 1,68,853	1,62,784 4,71,630 6,34,414	15,916 41,214 57,180		2,25,160	11,35		5,26, 19,24,t 24,51,0
636	38,696 44,777	54,344	4,3n5 7,082	+ 12,717 17,445 30,162	35,819 32,654 68,473	26,078 25,778 51,851		970 402 1,372	3,446 14,365 17,811	526 1,499 2,025	4,942 16,966 21,208	40,783 41,789 85,572	3,861 54,344 58,205	4,305 7,082 11,387	13,687 17,987 81,624	72,714	-	::-	1,28,56 1,98,96 3,5,,46
20,083	-	58,205 6,66,618	-	11,07,814	1,90,496	-	24,60,200	1,78,699	86,075	29,350	2,44,124	2,54,425	6,92,619	68,517	18,03,556	4,38,272	21,118		27,78,50
11 11	4,270		 143 	2,723	7,951 13,1u4 	25,587	19.921 68,493	4,794	1,548 480 48	8,350	1,548 480 13,192 26,785	1,19,229 28,765 59,508 75,494	949 56	"143 	10,741	89,171 8,398 1,008			78,64 1,16,74
11111	3,430 200	1,933		16	11,018 612		420 23,656	26,285 200 4,676		620 158	820 4,834	33,771 7,954 200	6,748	314	4.73	1,556			40,08 86,85 8,60
1,6		1,889	3,370	1,558	21,481	25,938	78,316	609 1,118	6,177 8,198	10,701		52,680 31,682 24,080 4,38,563	1,889 1,047	3,887	2,671		4,187		87,6 48,7 1,00,4
45,1	ON DESCRIPTION OF	5 4,286 0 7,79,702	3,647	-	5,63,400			9,55,270	1,50,17	2,61,270		18,36,639	8,58,070	91,373	35,43,73	11,16,05	8 47,8	-	77,93,

EDUCATION-G

Return of Expenditure on Public Instruction in the Lower Provin

							1	UNDER	PUBLIC	MAN	GEMEN	т.						
		м	anage	d by Go	vernmen	ıt.		Ma	naged by) Distr	ict or M	unicipa	al Boar	ds.	М	aint	ainer	by N
OBJECTS OF EXPENDITURE.	1		1	pied		other		T	.	T	psid		other		. [9)	9 1	
	Provincial revenues.	District funds.	Municipal funds.	Fees, including fees F from Mohsin Fund.	Subscriptions.	Endowments and ot sources.	Total.	Provincial revenues.	District funds.	Municipal funds.	Fees, includirg fees I from Mobsin Fund.	Subscriptions.	Endowments and of sources.	Total.	e States' reve	al Funds in	Municipal Funds raise in Native States.	Foes.
1	2	8	4	5	6	7	8	0	10	11	12	13	14	15	16	17	18	19
INDIRECT EXPENDITURE.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Ra.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
only) Apparatus (Special Grants	2,97,162 89,066	108	2	-	_	15,630	3,12,900 39,068	440	2,016 3,522	346		329	256	3,041	2,810 1,321			
Total	3,36,228	108	2	· 23		15,630	3,51,968	440	5,639	346		329	256	6,909	4,131			
inversity		::		=	:	. ::	::	::	:	=	::	3	:	=	::	::	=	
Arts Colleges		::			=======================================					:	5		:::::::::::::::::::::::::::::::::::::::					
Other Special Schools Total Charges for Scholarships							-:											
Miscellaneous— Hostel (Boarding charges)										:	:			1111	=	111 1111		
Total Miscellaneous Charges	-												=	-,,			=	
Total of Indirect Expenditure Total Expenditure on Public	and and the same	108	2			15,630	3,51,968	440	5,538	346		329	256	6,909	4,131	=		***
INSTRUCTION IN 1905-1906	15,65,582	1,21/3	373	4,75,070	4,500	39,561	20,86,379	3,385	82,721	4,744	61,427	7,275	6,514	1,66,066	34,462	***		14,09

TABLE IV-concluded.

Bengal for the official year 1905-1906-concluded.

TUT	IONS.						97.001		#25 Miles				TOTAL	EXPE	NDITURE	FROM	-		
				Uı	SDER PR	IVATE B	IANAGEME	NT.	2000 2000	Carse Vul					Mohsin		OTHE		
	Aided	by Gove	ernment	or by Dis	trict or 1	I unicipa	l Boards.	in signing	Unaid	led.	42	180001	St. L.		from M		Pub	lic.	
Total.	Provincial revenues.	District funds.	Municipal funds.	Fees, including fees paid from Mohsin Fund.	Subscriptions.	Endowments and other sources.	Total.	Fees, including fees paid from Mobsin Fund.	Subscriptions.	Endowments and other sources.	Total.	Provincial revenues.	District funds.	Municipal funds.	Pees, including fees paid fre	Private.	Nutive States' revenues.	Imperial contributions.	FOTAL.
22	23	24	25	26	27	28	29	30	31	32	83	34	85	36	87	38	89	39a	40
Rs. 2,810 1,331	Rs. 5,71,991 7,846	Rs. 2,881 4,706	Rs. 1,872 897	Rs. 24,962 14,461	Rs. 59,689 5,545	78,508	Rs. 7,39,903 52,596	Rs. 13,801 1,979	Rs. 789	Rs. 79,509 10,174	Rs, 94,149	Rs. 8,71,608* 47,212†	Rs. 5,005 8,388†	Rs. 1,872	Rs. 38,763 16,440	Rs. 2,28,165 34,412	Rs. 7,890	Rs.	Rs. 11,52,803 1,09,155
4,141	5,79,837	7,587	2,769	39,423	65,234	97,649	7,92,499	15,780	878	89,788	1,06,441	9,18,820	13,898	3,117	-	2,62,577	8,848		12,61,958
	=		=	=	=					=	::	92,366 2,91,328	2,14,259	3,810	1,60,944‡		7,788	:::	1,60,944 92,360 5,17,294
			=======================================			::		=	:::::::::::::::::::::::::::::::::::::::			62,000\$ 4,014 16,500¶ 44,817 2,753 7,852	1,329 16,980 13,579 844	521 197	:	15,790 4,824 2,671 175 1,066	2,181 544 115		77,790 8,338 18,350 66,846 17,051 9,811
***		:::		- ::							:::	3,127 1,930	3,548 720	189	::	278 2,536	480	::	7,092 5,616
***		•••		:-								1,42,993	37,000	857		26,840	8,270		2,10,960
111	=	=		::	::	Ξ	=	=	=	:	:	68,668 2,093 5,692	18,509 377	1,221 728 3	5,18,197 1,947	2,82,130 134 	150 63	:	8,90,379 21,526 8,019
107	=	=	::	#				::		:::	:::	₂₁₃	51 3	486 408		18	108	***	48 75
	-::		_::_							::		8,061 28,120	35,654	940 2,627	10,327	898	8	::	9,90
***												1,12,847	54,603	6,863	5,30,471	2,88,531	326		9,88,14
4,141	5,79,837	(7,587	2,769	39,423	65,234	97,649	7,92,499	15,780	878	89,783	1,06,441	15,58,354	3,19,255	14,147	7,46,618	5,78,107	20,182		82,31,66
0,319	11,84,177	7,87,289	89,373	20,77,297	6,31,634	5,10,954	52,80,724	9,71,050	1,51,053	3,51,053	114,73,156	33,94,993	11,77,325	1,05,520	42,90,353	19,89,160	67,998		1,10,25,34

Including Rs. 2,015 paid to unaided schools from Provincial Revenues.
† including Rs. 300 paid from Provincial Revenues and Rs. 160 from District Fund to unaided school.
† University saved Rs. 886.
† Excluding Rs. 6,940, Assam Government scholarships.
† Excluding Rs. 45, Assam Government, and Rs. 388 Central Provinces Government scholarships.
† Excluding Rs. 2,956, Assam Government sholarships.

EDUCATION-

Return of the Stages of Instruction of Pupils in Public Schools for Secondary and Primary

BROONDARY SCHOOLS FOR BOYS. (English and Vernacular.) Government	42 17 27 102 5 2 90 3 666 963 284 440 1,471	9,860 1,144 1,054 1,179 1,654 1,79 1,654 1,79 1,654 1,79 1,76 1,40 1,55 1,54 2,46 2,46 2,46 2,46 2,46 2,46 2,46 2,4	Comprising have pas Lower Se Stage, but the Matria nation, or an equiva 5,411 345 486 104 12,913 14,815 34,053	condary (Middle) t passed Rasmination of ard. Total. 6 5,411 345 466 104 14,815 34,083	Oomprising have pas Upper Prinave not Lower Sestage. Boys. 1.916 206 555 1,145 201 27 852 25 14,612 2,318 10,891 32,588	girls. Girls. 8 Girls. 15	Total. 1,916 206 555 1,146 207 2,218 10,891 410 32,603
BROONDARY SCHOOLS FOR BOYS. (English and Vernacular.) Government	42 17 27 102 5 29 866 963 284 40 1,471	9,860 1,144 2,401 6,349 1,79 1,69 1,79 1,64,55 1,46 2,46 1,53 3,45,56 1,50 1,50 1,50 1,50 1,50 1,50 1,50 1,50	5,411 345 466 104 13,913 14,815 	Girls. 6	6 5,411 345 466 104 12,912 14,815 54,053	1,916 200 555 1,145 201 27 282 2,318 10,891 410 32,588	Girls. 8	1,916 2006 555 1,145 201 27 282 25 14,027 2,318 10,891 410 32,603
BROONDARY SCHOOLS FOR BOYS. (English and Vernacular.) Government English Vernacular English Vernacular English Vernacular English Vernacular English Vernacular English Vernacular English Vernacular English Vernacular English Vernacular English Vernacular English Vernacular Total Total SECONDARY SCHOOLS FOR GIRLS. (English Vernacular English Vernacular Total Total Total Secondary Schools for boys and girls Primary Schools for Boys. Government Government Total Total Total Secondary Schools for boys and girls Primary Schools for Boys. Government Government Native States Native States Added Native States Added Added Vernacular Total	42 17 27 102 5 2 90 866 963 284 40 1,471	9,860 1,1.4 2,4.1 6,549 1,988 1,98 1,681 1,681 1,681 1,681 1,681 1,681 1,533 45,549 2,466 150,551	5,411 345 466 104 13,913 14,815 	5 S	6 5,411 345 466 104 12,912 14,815 54,053	1,916 200 555 1,145 201 27 282 2,318 10,891 410 32,588	25 	1,916 206 555 1,145 201 27 282 25 14,627 2,318 10,891 410 32,603
BROONDARY SCHOOLS FOR BOYS. (English and Vernacular.) Government English Vernacular English Vernacular English Vernacular English Vernacular English Vernacular English Vernacular English Vernacular English Vernacular English Vernacular English Vernacular English Vernacular Total Total SECONDARY SCHOOLS FOR GIRLS. (English Vernacular English Vernacular Total Total Total Secondary Schools for boys and girls Primary Schools for Boys. Government Government Total Total Total Secondary Schools for boys and girls Primary Schools for Boys. Government Government Native States Native States Added Native States Added Added Vernacular Total	42 17 27 102 5 2 90 866 963 284 40 1,471	9,860 1,1.4 2,4.1 6,549 1,988 1,98 1,681 1,681 1,681 1,681 1,681 1,681 1,533 45,549 2,466 150,551	5,411 345 466 104 13,913 14,815 34,053	47	5,411 345 466 104 12,912 14,815 34,053	1,918 206 555 1,145 201 27 282 2,582 14,612 2,318 10,891 410 32,588	25 	1,916 206 556 1,145 201 97 282 25 14,627 2,318 10,891 410 32,603
(English and Vernacular.) Government	17 27 102 5 2 20 3 666 263 284 40 9 9 3 63	1,144 2,444 1,498 1,799 1,681 179 1,681 16,285 16,333 45,543 2,466 150,551	345 \$68 104 13,913 14,815 34,053	47 188	345 10,8 12,912 14,815 34,063	206 555 1,145 201 27 282 25 14,642 2,318 10,891 4:0 32,588	15 85 828	206 505 1,145 201 27 282 25 14,627 2,318 10,891 410 32,603
(English and Vernacular.) Government	17 27 102 5 2 20 3 666 263 284 40 9 9 3 63	1,144 2,444 1,498 1,799 1,681 179 1,681 16,285 16,333 45,543 2,466 150,551	345 \$68 104 13,913 14,815 34,053	47 188	345 10,8 12,912 14,815 34,063	206 555 1,145 201 27 282 25 14,642 2,318 10,891 4:0 32,588	15 85 828	206 505 1,145 201 27 282 25 14,627 2,318 10,891 410 32,603
Government English	17 27 102 5 2 20 3 666 263 284 40 9 9 3 63	1,144 2,444 1,498 1,799 1,681 179 1,681 16,285 16,333 45,543 2,466 150,551	345 \$68 104 13,913 14,815 34,053	47 188	345 10,8 12,912 14,815 34,063	206 555 1,145 201 27 282 25 14,642 2,318 10,891 4:0 32,588	15 85 828	206 505 1,145 201 27 282 25 14,627 2,318 10,891 410 32,603
Native States { English	20 8 666 263 284 40 1,471 2 49 9 8 63	1,681 176 64,265 15,333 45,549 2,466 150,551	13,913 14,815 34,053	47 188	104 12,912 14,815 34,053	25 14,612 2,318 10,891 410 32,588	15 85 85 848	25 14,627 2,318 10,891 32,603
Aided { English	266 263 284 40 1,471 2 49 9 3	64,265 16,333 45,549 2,466 150,551	34,053	47 188	14,815 34,053	2,318 10,891 4:0 32,588	15 85 838	2,318 10,891 410 32,603
SECONDARY SCHOOLS FOR GIRLS. (English and Vernacular.) Government English En	284 40 1,471 2 49 9 3	45,549 2,466 150,551 298 5,081 579	34,053	47 188	14,815 34,053 47 192	10,891 4:0 32,588	15 85 828	32,603 88 84
SECONDARY SCHOOLS FOR GIRLS. (English and Vernacular.) Government English English Unaided Vernacular Total Total Secondary Schools for boys and girls Primary Schools for Boys. Government District Fund Municipal Native States Added Adde	2 49 9 8	298 5,081 579	34,033	47 188	34,053 47 193	32,588	15 85 828	85 84
Government English Sensorial For Girls. (English and Veraceular.) Government English Sensorial	2 49 9 3 63	5,081 579		188	192	91	828	846
Government English	49 9 8 63	5,081 579		188	192	91	828	846
Government English	49 9 8 63	5,081 579	4	188	192	21	828	849
Aided Vernacular	9 3 63	579		1,77	1	1 21		
Unaided English Vernacular Total Total Secondary Schools for boys and girls Primary Schools for Boys. Government	63	139			***	4	28	39
Total Total Secondary Schools for boys and girls Primary Schools for Boys. Government	63	1.400	- 100m	****		***	28	2
Total Secondary Schools for boys and girls Primary Schools for Boys. Government		6,097	4	235	239	25	969	99
Government	1,534	156,648	34,057	235	34,292	32,613	984	33,59
Government			4	100				
District Fund	102	4,049	·		-		-	
Native States	95	8,490 408	= =			1 =	-	
	26,767	6,364 787,003	1	-	-	4	***	
(1) 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	6,352	123,340				4		-
	33,672	929,637						-
Primary Schools for Girls.		-	7	10				1
Government	7	453	-				1	-
Municipal	19	219	- :	- ::	- ::-	- ::		"1
Native States	2,426 416	57,804 7,476		1 ::	-	1 ::	10	
Unaided	_	65,952	70	-	1		10	i
Total	2,861	995,589	-			4	10	1
Total Frinary Donools for soys and gar	38,067	200,000	34,057	235	34,295	- Contraction	994	83,61

SUPPLEMENT TO THE CALOUTTA GAZETTE, DECEMBER 26, 1906. 1969

GENERAL TABLE V.

Education in the Lower Provinces of Bengal at the end of the official year 1905-1906.

UPPER	PRIMARY	STAGE.	1 2 2 3 5	L	OWER PRI	MARY STA	GB.				
Lower	ng all p assed be Primary S	tage, but	Comp	rising all I	oupils who	have not p	assed bey	ond the	,		
Upper I	t passed b Primary St	age.	Readi	ng printed	l books.	Not rea	ding print	ed books.		TOTAL.	
404-2	8	4 ABP/4	, spinite	•				- 1 -			
Boys.	Girls.	Total.	Boys.	Girls.	Total.	Boys,	Girls.	Total.	Boys.	Girls.	Total.
10	11	19	15	14	15	16	17	18	19	20	21
1,745 295 679 1,339 221	::: 3 2	1,745 205 682 1,341 221	760 492 692 2,952 204	i	760 498 708 2,988	28 20 114 898	 2 7	28 200 116 905	9,860 1,193 2,385 6,334	1 16 15	9,860 1,194 2,41 6,340
17 415 27 17,145 3,615 9,858 592	2 19 5	17 417 27 17,164 3,620 9,858 593	122 624 95 16,380 7,471 8,760 1,075	76 88 7 2	204 122 625 95 16,456 7,159 8,767 1,077	3 242 29 3,058 2,172 1,203 378	11 48 64 15 8	3,106 2,236 1,218 3,86	1,098 179 1,667 176 64,167 15,176 46,527 2,455	14 158 157 22 11	1,098 179 1,681 176 64,265 15,339 45,549 2,466
35,948	32	35,980	39,227	192	39,419	8,341	155	8,496	150,157	394	150,551
98 11 	83 836 73 	83 929 84 	642 35 	83 2,690 240 72	83 2,732 275 77	62 21 	317 167 30	379 188 30	823 71 5	298 4,259 508	298 5,051 579
* 104	996	1,100	682	2,485	3,167	68	514	597	898	5,199	6,103
36,052	1,028	37,080	39,909	2,677	42,586	8,494	660	9,093	151,055	5,593	156,648
765 1,703 8 59 19,950 645		765 1,732 8 52 20,669 653	2,292 4,871 291 3,4 0 456,619 6 ,254	19 668 80 14,615 1,765	2,504 5,539 2,71 3,487 471,234 62,019	966 976 109 2,697 274,247 56,553	7 233 135 21,449 4,113	973 1,509 109 2,832 295,696 60,666	4,023 7,550 408 6,149 750,820 117;452	19 930 215 \$6,183 5,888	4,049 8,480 408 6,364 787,003 123,344
23,123	169	23,281	527,727	17,140	544,867	335,548	25,937	361,485	886,402	43,235	929,637
 54	62 804 65	63 858 66	 8 1,248 64	274 51 29,655 3,243	274 59 \$0,803 8,807	 19 650 122	117 141 25,483 3,981	117 160 26,133 4,103	27 1,952 187	458 192 65,862 7,289	453 219 57,804 7,476
55	931	986	1,320	33,123	84,443	791	29,722	30,513	2,166	63,786	65,959
23,177	1,089	24,267	529,047	50,263	579,310	336,339	55,659	391,998	888,568	107,021	295,589
59,230	2,117	61,347	568,956	52,940	621,896	344,768	56,828	401,206	1,030,€23	112,614	1,152,237

EDUCATION-GENERAL TABLE VI.

Return showing the Results of the Prescribed Examinations in the Lower Provinces of Bengal for the official year 1905-190;

	6E	NUMB INSTIT	UTION	8 NEES,	No	MBER O	e Exa	MINE	E8.		Numbe	R PAS	SED.			RAC	E OR	SCHO	OF LARS.	PASSE
	public	23.25		100 pt 10	public					public .					Burasians.		Hind	us.		
NATURE OF EXAMINATION.	Institutions under management.	Aided institutions.	Other institutions.	Total.	Institutions under management.	Aided institutions.	Other institutions.	Private candidates.	Total.	Institutions under management.	Aided institutions.	Other institutions.	Private candidates.	Total.	Europeans and Eu	Native Christians.	Brahmans.	Non-Brahmans.	Muhammadans.	Buddhists.
+ 1	2	8	4	В	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21 5
1.—ABTS COLLEGES— 1. Master of Arts 2. Bachelor of Arts 3. Bachelor of Science 4. First Examination in Arts 11.—COLLEGES FOR PROPESSIONAL	6 1 10	3 31-4 	4 11 19	11 21 1 35	86 361 18 377	38 349 338	10 786 1,032	51 83 .27	185 1,579 18 1,874	32 123 12 180	16 95 152	2 164 323	19 18 47	69 400 12 702		3 7 20	26 97 4 269	38 262 8 369	2 33 33	1 1 1
TRAINING. (a)—Law— 1. Honours in Law 2. Bachelor of Law	 5		6	₁₁		=	475	8	3 512	4			1	86		9 7	36	43	7	
1. Preliminary Scientific L.M.S. spirls 2. First L.M.S spirls 3. Combined Preliminary Scientific and First L.M.S gtrls 4. Second L.M.S. and Re-examination spirls 5. Preliminary Scientific M.B. spirls 6. Preliminary Scientific M.B. spirls 6. Preliminary Scientific M.B. spirls 6. Spirl	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Service of		1	61 3 5 172 67 1 7				34 61 3 5 67 67 172	24 			111111111	24 "47 "3 "95 "31 1 5	: : : : : : : : : : : : : : : : : : :		8 "12 "1 28 9	15 	1	
6. First M.B girl 7. Combined Scientific and First boy M.B	8 8 8 8 8 8			163	30 18 				"80 "18 	26 6 				26 6 		ï	9 "3 	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		:::::::::::::::::::::::::::::::::::::::
(c) - Engineering - 1. B. R. 2. First Examination in Engineering. (d) - Agriculture - 1. Higher class examination	1 1	-	 	1 1	26 30	-	 	- :	26 30	9 16	 	1 : :		9 16	1 2	-	5	8 9		
II.—SCHOOLS FOR GENERAL EDUCA-																				
1. Matriculation for boys 2. B. class examination boys 3. C. ditt boys 4. High School Honours for grins 5. High School examination girls 6. Middle School examination. 7. Upper Primary ex- for amination. 8. Lower Primary ex- for girls amination. 8. Lower Primary ex- for girls amination. 8. Lower Primary ex- for girls amination. 9 girls girls 6 girls	2 2 1 180 259 1 359	176 b 4 9 851 23 2,904 105 14,910 560	148 1 1 232 1 286 2 827 6	365 6 2 3 3 6 10 1,263 24 3,449 108 16,096	803 5 8 8 8 1 4 1,545 1,903 2 2,622 37	1,202 19 34 28 6,247 56 (18,717 255 48,985 1,260	1,805 4 7 2,456 10 3,058 17 3,921 24		3,886 24 8 12 42 32 10,248 66 18,678 274 55,528 1,321	2 2 7 3	315 6 10 4 4,600 46 9,781 209 34,270 1,017	3 1,841 6 2,414 12		1,026 8 2 9 13 7 7,761 13,761 223 39,364 1,074	138 7	123 33 262 105 601	391 2 7 2,417 6 3,511 3,511 3,158 210	572 1 1 2 4,487 13 8,436 8,436 592	684	
V.—SCHOOLS FOR SPECIAL EDUCATION. 1. Training Schools (English for Masters, Vernacular 2. School of Arts examination 3. Vernacular Medical examination 4. Overseer examination 5. Sub-Overseer examination 6. Amin class final examination 7. Burvey final examination 8. Accounts examination 9. Sanskrit Title examination 9. Sanskrit Title examination 9. Sanskrit Title examination 9. Sanskrit Title examination 9. Madrasah Oentral examination 9. Madrasah Oentral examination 9.	5 1 3 2 4 1 1 	"1 "1 "1 "	:: :: :: :: ::		391 156 122 48 73 25 82 			75 109	408 156 122 48 78 255 107 109 183 1,146 2,050				 19 10 	248 41 77 38 55 22 49 10 65 311 743 69		1	76 17 20 10 11 3 13 , 63 291 694	151 20 40 17 36 15 34 5 2 20 49	***	111111111

^{*} Details of these figures have not been received.

EDUCATION—GENERAL TABLE VII.

EDUCATION-GEN

Return showing the Distribution of District Board and Municipal Expenditure on

		7-7	NSTITUT	TONE	MANAG	ED BY	Disti	віст В	OARD		1	N INBT	ITUTION B	ons	uo e
				TONB	MANAG	ED BI				00.00	1	H.A.A.A		-	ditur
OBJECTS OF EXPENDITURE.	Number of institutions.	Number of scholars on the rollson the 31st of March.	Average number on the rolls monthly during the year.	Average daily attendance.	Provincial revenues.	District funds.	Municipal funds.	Fees'	Subscriptions.	Endowments and other sources	Total.		Municipal Boards.	Private persons or Associations.	Total District Fund expenditure
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1
Constitution Private Property Constitution			Vertical.	1	Rs.	Rs.	Rs.	Rs.	Rs.	Ra.	Rs.	Rs.	Rs.	Rs.	R
COLLEGIATE EDUCATION.	1	32	28	20		900	950	1,217	175	3,886	7,128	:::		:::	
ofessional Colleges		32	28	20		90'0	-	1,217	-	3,886	7,128			••	
Tota for Collegiate Education	1	- 02	23												
DIRECT EXPENDITURE.			- 1												
School Education, General.				1								17			
or Boys English Ruglish	1	523	536	1,391	100	8,963	::	12,178	2,690	21	12,178 20,218	::	250 240	2,619 82,224	91
Middle , English Vernacular	26 102	1,878 6,349	1,770 5,939	4,700		36,253		14,911	3,244	21	54,493		***	23,727	59
or Girls English English	1 ::	:::						=					***	120 108	
Middle ., "{English	=		S. (2.12)	1.00		45.0.0			K 024	49	80.889		490	1,08,798	-
Total Secondary Schools	129	8,750	8,245	6,510	164	45,2:6		35,533	5,934	42	86,889		780	-,55,156	-
Primary Schools.				e or		25,863		2,18			27,576	224		1,37,197	1,6
or Boys Upper Primary	93	8,342	8,077 139	6,351	33	402		2,10			429	12		4,71,216	4,7
Total Primary Schools for Boys	95	8,480	8,216	6,460	33	25,766		2,20			28,005	236		6,08,413	-
(Upper Primar		:::								=	***			54,344	1
For Girls Lower ditto Total Primary Bohools for Girls .				-	-						***		***	58,203	-
	93		8,216	-	33	25,76	5	2,207			28,003	236		6,66,618	6,9
SCHOOL EDUCATION, SPECIAL.	1	-	1	1000							in the				
SCHOOL FOR SPECIAL INSTRUCTION.	•			1											-
Training Schools—	on on					1				l		949			
(a) For Masters	: ::	:::		-	-	1	1 =			-					-
Schools	: ::	-		-	=		-								
Medical Schools Schools		116	121			4,81	4.0	1,00		482	6,541			1,93	3
Technical and Industrial Schools			-		***		***				***	1 =	-	40	103
Other Schools (Madrasahs		-::			***					-				1,88	7 70
		116	121		87	4,81	2 240	1,00	7	482	6,541	949		4,28	-
THE PROPERTY OF THE PARTY OF TH															T
INDIRECT EXPENDITURE.					4	00 2,01	6		32	ALC: CESSON A			200 00000000000000000000000000000000000	2,88 4,80	
	: ::					3,52		-	32	9 256	6,52	-	8	7,74	7
Total		SALES CONTROL			1 4			***		200	0,02	-			2,
Scholarships held in-				""	- "			1							
Arts Colleges	= =	1	1	-	-	-	-	1 ::	***						
Secondary Schools			-		***	1		-	***			111			
Primary			-		-	-	-			:::				-	
1 COURTON WING THE				-	-										
- Low L. Debeloughing													***	-	-
							TOTAL VICTORIAN	GSE DANS MILES	1000	20000	10000	C	***	7,87,44	

ERAL TABLE VII.

Public Instruction in the Lower Provinces of Bengal for the official year 1905-1906.

		EX	CPENDI	TURE	BY MUN	NICIPA	L BOAR	DS ON	PUBLIC	INSTE	UCTIO	N.		1 6	Municipal	
		1n 12	STITUTI	IONS MA	NAGED 1	BY MUN	ICIPAL I	BOARDS.			IN I	NAGED I	IONS BY—	public.	and Mun	
Number of institutions.	Number of scholars on the rolls on the 31st of March.	Average number on the rolls monthly during the year.	Average daily attendance,	Provincial revenues.	Municipal funds.	District funds.	Pees.	Subscriptions.	Endowments and other sources.	Total.	The Government."	District Boards.	Private persons or Associ- ations.	Total Municipal expenditure on instruction.	Total expenditure of District a: Boards on public instruction,	REMADUS
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	88
1	47 27	56 29	44 22	Rs. 855	Rs. 211	Rs	Rs. 3,671 1,905	Rs	Rs. 1,848	Rs.	Rs.	Rs. 950	Rs.	Rs.	Rs. 2,061	
2	74	85	68	855	211	-	5,576		1,848	1,905 8,490		950		1,161	2,061	1
9 3 2	756 842 179	673 360 195	553 287 152	1,800	782 930	250 240	13,042 2,130 440	837	=	15,092 3,989 1,370	 823		6,731 4,968 2,019	6,731 6,750 3,272	9,600 97,177 63,252	
	=	: ::	Ξ.			=	#	:	Ξ	Ξ		:	384 1,333 338	384 1,533 338	384 1,458 446	
7	1,277	1,228	992	1,800	1,712	490	15,612	837		20,451	823		15,773	17,808	1,72,312	
4 3	134 274	152 234	102 187	93	679 606		181	*	=	953 700	48	=	15.189 40.608	15,916 41,214	1,78,700 5,12,844	
7	403	386	289	93	1,285	•	275			1,653	48		55,797	57,130 4,305	6,91,544	
=			=							=			4,305 7,082	7,082	61,426	
7	408	386	289	98	1,285		275			1,653	48	=	67,184	68,517	7,61,136	
_															949	
::	=	=	=		=	=		=	=	=	=	=	143	148	199	
=	=		=			=	=	=	=	=	=	240	74	314	7,059	
=		=		=	=			:::				=	60		408	
		:::		==	=	=	=		==				8,370	3,857	5,259	
	%					***						240	3,647	0,051	13,934	
	=	::	Ξ	40	346	=	_::			40 346	2	=	1,879 897	1,872 1,245	6,877 9,633	
				40	346	_=_				386	2		2,769	3,117	2,18,069	
-		"					-		_					3,610	2,15,000	
	=	=	=	::	=	::	=	=	=	:::			=	521 197	1.850 17,177	
-	=		Ξ	=	-	=	=	=	=	=	=	=	::		13,579	
=	=	=		-	=	=	=	=	==			:::		139	3,687	
														857	37,857	
	CHARLEST & CALL				***						***	***	***	6,363	60,966	

SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 26, 1906.

1974

EDUCATION—GENERAL TABLE VIII.

Return showing the Attendance and Expenditure in Hastels or Boarding-houses in the Lower Provinces of Bengal for the official year 1905-1916

	NUMBER	B OF-		NUMBER HO ARE					Ex	PENDITUE	R FROM-			
CLASS OF HOSTELS OR BOARDING-HOUSES.	Hostels or board- ing-houses.	Boarders,	Arts colleges.	Colleges for Pro- fessional Train- ing.	Secondary schools.	Primary schools.	Special schools.	Provincial revenues.	District or Municipal funds.	Subscriptions and endowments.	Fees.	Native States revenues.	Total expenditure.	Remarks
1	2	8	4	5	6	7	8	9	10	11	12	18	14	. 15
for Males—								Rs.	Re.	Rs.	Rs.	Rs.	Rs.	
Managed by Govern-	29	1,560	328		542	8	682	85,582		2,296	75,315		1,13,193	
ment. Managed by District or			***		***	***			-					
Municipal Boards. Aided by Government or by District or Muni-	81	3,825	904		1,432	393	596	10,917	1,227	66,261	1,22,232	-	2,00,637	
Maintained by Native	3	61			43	18	-					150	150	
States. Unaided	240	5,844	34		3,513	1,786	506		***	85,334	1,48,514		2,33,848	
Total	353	10,790	1,266		5,530	2,205	1,784	46,499	1,227	1,53,891	3,46,001	150	5,47,828	
For Females-														
Managed by Govern-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	176	6	20	138	12		15,771	-		13,420		29,191	
Managed by District or Municipal Boards.		2,287	7	15	1,644	562	59	6,398	-	88,539	1,57,808		2,02,745	
Aided by Government or by District or Muni- cipal Boards.	1	7		*	1960									
Maintained by Native States. Unsided	99	1,402	-		276	1,095	32			39,700	908		40,608	
Total		3,865	13	35	2,057	1,609	91	22,169		78,239	1,72,186		2,72,544	
GRAND TOTAL	470	14,655	1,279	40	7,587	3,874	1,875	68,668	1,227	2,82,130	5,18,197	150	8,20,372	

SUPPLEMENT TO THE CALOUTTA GAZETTE, DECEMBER 26, 1908. 1975

EUROPEAN EDUCATION—GENERAL TABLE III.

EUROPEAN

EDUCATIONAL-GENE

Return of Schools and Scholars in European

					Y a			100	PU	BLIC	INST	ITU	TIONS	• centerpose				
			U	DE	Po	BLIC M	ANAGEM	ENT.							UNDE	R PRI	VATE M	ANAGI
	M	anaged b	y Gover	n-	Man	nazed by unicipal	Distric Boards.	t or			ined b States		Aided Di	by Gove strict or Boar	Municip	or by		Ur
CLASS OF INSTITUTIONS.	Number of institutions.	Number of scholars on the rolls on 31st March.	Average number on the rolls monthly during the year.	Average daily attendance.	Number of institutions.	Number of scholars on the rolls on 31st March.	Average number on the rolls mouthly during the year.	Average daily attendance.	Number of institutions.	Number of scholars on the roils on 31st March.	Average number on the rolls monthly during the year.	Average daily attendance.	Number of institutions.	Number of scholars on the rolls on 31st March.	Average number on the rolls monthly during the year.	Average daily attendance.	Number of institutions.	Number of scholars on the rolls on 31st March.
1	2	3		Б	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Arts Colleges	_		•••	-	-			-				-					(a) 1	1
School Education, General. Secondary Schools. For Boys- High schools English Middle , Total for boys schools	 -1-	164	167	159	::		• ::	111				1111	4 7 11	922 1,123 2,045	905 1,093 1,998	832 1,007 1,839	3 3	896 896
For Girls— High schools English Middle ,,	ï	117	84	79	::	:::		=	=	=	:::	=	7 21	988 2,234	1,013 2,090	898 1,824	::	
Total for girls schools	1	117	84	79	-		,		***			-	28	3,222	3,103	2,723		***
GRAND TOTAL OF SECONDARY SCHOOLS FOR BOYS AND GIRLS.	2	281	251	238				-	-		=	-	39	5,267	5,101	4,561	- 8	836
Primary Schools. For Boys— Upper primary Lower Total Primary schools for boys	=	=	=	111	=======================================	=	::		:::	=======================================	::	111111	5 2 7	- 378 96 474	873 84 457	805 76 381	*:	
For Girls— Upper primary Lower	=	=		-		-			-	::	-	:	13	819 121	813 86	645 66	1 1	6
Total Primary schools for girls	-			-	-	S		-	-		, ··		16	940	899	711	2	15
GRAND TOTAL PRIMARY SCHOOLS FOR BOYS AND GIELS.	-			-	-		•			-	-	-	23	1,414	1,356	1,092	2	15
SQUOOLS FOR SPECIAL INSTRUCTIONS.																6		
For Mistresses	1	20	20	20	-			=	=	PROGRAMME	=	1	(b)1	£5	112			
Total	1	20	20	20	J			-	-				4	101	118			843
TOTAL SCHOOLS AND COLLEGES OF PUBLIC INSTRUCTION.	3	301	271	258	1								66	6,782	6,575	5,734	6	

(a) Loreto House.

EDUCATION.

BAL TABLE III.

Schools for the official year 1905-1906.

ided.			ist of March		Number	of School	LARS ON T	HE SIST O	P MARCH	LEARNI	ro—				
the rolls	пое.	rtions,	rs on the 31		English.		A clas	sical langu	iage.	A verna	cular la	iguage.	ys' schools	ris schools	Remares
Average number on the rolls monthly during the year.	Average daily attendance.	Grand total of institutions.	Grand total of scholars on the 31st of March.	Boys.	Girls.	Total.	Boys.	Girls.	Total.	Boys.	Girls.	Tota!,	Number of girls in Boys' schools.	Number of boys in Girls' schools.	
90	21	23	23	24	240	248	25	25a	258		26a	265	27	28	29
6	5	1	1		1	1						s estimated and the second and the s		Politica (P. 18)	
													144 144 - 148	urgopa o	
742	653	7 8	1,748 1,287	1,748 1,253	34	1,748 1,287	928 332	8	928 340		19.169 	9			
742	658	15	3,035	3,001	34	8,035	1,260	8	1,268	9		9	34		
		7 £2	989 2,351	171 454	817 1,897	988 2,351	24 138	469 730	493 868	-			=	171 454	
		29	3,339	625	2,714	3,339	162	1,199	1,361					625	
742	653	44	6,374	8,626	2,748	6,374	1,422	1,207	2,629	9		9	34	625	
											93	23003	00100754	1870	0
		5 2	378 96	237 88	141 8	378 96	9 13	14 8	23 21	19	10	29	141	:::	
		7	474	325	149	474	22	22	44	19	10	29	149		
7 8	5 6	14 4	825 130	272 44	553 86	825 180	2	.1 	3		::	-		273 44	1000000
15	11	18	955	316	639	955	2	1	3		7			316	1
15	11	25	1,429	641	789	1,429	24	23	47	19	10	29	140	316	
		2 5	26		26	26							e diec		
		-	95	79	16	121	•••								TA POSTURA
763	669	75	7,925	4,346	3,579	7,925	1,446	1,230	2,676	28	10	38	183	941	

of the Welland Memorial School, Calcutta.

1978 SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 26, 1906.

EUROPEAN EDUCATION-GENERAL TABLE IIIA.

Number of Scholars on the 31st March 1906, classified according to sex, race, or creed.

	Euro-		Hin	DUS.					
	peans and Eura- sians.	Native Chris- tians.	Brah- mans.	Non- Brah- mans,	Muham- madans.	Bud- dhists.	Parsis.	Others.	Total.
1	2	3	•	5	6	7	8	9	10
COLLEGIATE EDUCATION.	1								
Ante Colleges Male			=	-		=	=	<u></u>	₁
[1] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	1			-				-	1
SCHOOL EDUCATION—GENERAL.									
Secondary Schools.									
	1,602	3	26	21	22	Ξ	62		1,74
	1,168	6	8	9 2	31	2	20		1,25
	150 732	7 11	1 51	=	=	₁	3 8	10 14	17 81
Midd ie Schools— English { Male	365	7 12	6 8	*	s	2 1	3 25	71	1,89
Total	5,786	45	100	82	56	6	121	228	6,37
Primary Schools.	1 100	4.1							
For Cirls Male	314 146 290 597	7 2 4 17	3	=	1	2	 13 15	2 1 6 8	82 14 81 63
	1,347	80	7				28	17	1,42
SCHOOL EDUCATION—SPECIAL.							100	4.00	
Training Schools { Male Female	26		=			=	-		
Commercial Schools {Male Pemale	23 16	8	20	81	2				7
Total	65	3	20	31	2				12
GRAND TOTAL	7,199	78	327	63	58	6	149	245	7,9%

SUPPLEMENT TO THE CALCUITA GAZETTE, DECEMBER 26, 1906. 1979

EUROPEAN EDUCATION-GENERAL TABLE IV.

FOR EUROP

EDUCATION-GR

Return of Expenditure on Public Instruction in European Sch

		6.4																	PU	BI
							U	NDEE	Pt	BLIC	MAN	AGE	ARNT							
		Mar	aged	by Gov	ernm	ent.		M	anag	ed b	y Dist	rict o	r Mu	ini-		Mair	tained	by Na	tive E	ital
OBJECTS OF EXPENDITURE.	Provincial Revenues.	District Funds.	Municipal Funds,	including fees paid Mobsin Fund.	ptions.	ments and other		Provincial Revenues.	District Funds.	pal Funds.	including fees paid Mohsin Fund.		Endowments and other sources.		Native States revenues.	Funds in Native	ipal Funds raised		iptions,	ments and other
	Provine	District	Munici	Fees, in from 1	Subscriptions	Endowments sources.	Total.	Provin	Distric	Municipal	Fees, in from	Subscr	Endown	Total.	Native	Local I States.	Municipal in Native	Fees.	Subscriptions,	Endows
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	-
DIRECT BXPENDITURE. OOLLEGIATE EDUCATION.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Ra.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Ra,	
Aris Colleges							***		•••								***			
School Education, General Secondary Schools. For Boys-		•																		10 N 10 10 10 10 10 10 10 10 10 10 10 10 10
High schools English		-							***			100				""				
Middle Ditto	21,451	-		6,756	-		28,207	-		***		=	-	-		-			-11	H
Total for Secondary Schools for Boys	21,901	-				* 2000				-										-
Por Girls— High schools English		l																		
Middle ,, Ditto	18,195			3,170	-		21,365	***		***		-			***	-		-		-
Total for Secondary Schools for Girls Total Secondary Schools both for Boys and	18,195	-	=	9,926	-		49,572	1		-						-		-	-	1
Girls.		-	-		-			-	-	-		-		_		-				1
Primary Schools. For Boys— Upper primary					-	-	=						=	-		-	:			
Total for Primary Schools for Boys					-					-		-			447	-				
For Girls-																				-
Upper primary	Control of Section 1	=	-		1:	:::	:::	100	=	=		-	-		::	::		1		
Total for Primary Schools for Girls	-			***												-			000	
Total Primary Schools both for Boys and		-			-				-			-							•"	
SCHOOLS FOR SPECIAL INSTRUCTIONS.	45,00			intage																
Praining schools for Mistresses Commercial schools	CHARLES THE STATE OF THE STATE	:::	=	=	1::		1,886	-				1.							-	
Total	7.000	-	-				1,886													-
Total of Direct Expenditure	41,532			9,926	-		51,458	-				=					-	-		-
INDIRECT EXPENDITURE											100									
Buildings Furniture and apparatus (special grants only)	9,226	=			=		9,226		-	-			-							1
Total	9,226	-			-		9,226		-			-	-							-
Inspection	-	-	-	-	-	-		-			""	-	-	-				-	"	
Scholarships or stipends held in—	1		1		1				1	1		1				1				1
Secondary schools	- CONTROL 1971	-	-		- =			-	=	-	-	1	-		1	-	-	-	-	
Miscellaneous—							124/25			1			-							
Boarding charges Charges for conducting examinations Payments to European cadets	-	1::	=	=	1::	=		1::	::	1	1::	::	1::		:::	:::		1::	1111	
Contingencies and miscellaneous Total Miscellaneous Charges		-	-		1:	-		-		-		-	-		-			-		
Total of Indirect Expenditure	9.226	=	-		-		9,226	-	-	1		1		-		-	-			
TOTAL EXPENDITURE ON PUBLIC INSTRUC-	50,758	-		9,926			60,684	-	133	1.,		-	-		-					ß

EDUCATION.

TABLE IV.

Bengal for the official year 1905-1906.

UTIO	N8-																	
				Under	PRIVAT	B MANAGI	EMENT.	No de suprino Principal					TOTAL E	XPENDITU	RE PROM-			
Aide	d by	Gove	rnment o	or by Distroards.	rict or M	anicipal		Uı	naided.		Marie Discovered							-
ines.		18.	fees paid		d other		including fees from Mohsin fund.		d other		nee.		Particolor	es paid	All ot	her sour	098.	GRAND TOTAL.
Reven	nds.	Fund	ding sin Fe	is.	ts and		uding	DS.	s and		Reven	ds.	unds	ing fe			blic.	
Provincial 1	District Funds.	Municipal Funds.	Fees, including fees from Mobsin Fund	Subscriptions	Endowments sources.	Total.	Fees, incl pald from	Subscriptions.	Endowments sources.	Total,	Frovincial Revenues.	District Funds.	Municipal Funds,	Fees, including fees paid from Mohsin Fand.	Private,	Native States' revenues.	Imperial con-	
23	24	25	26	27	28	29	30	31	32	83	34	35	36	37	38	39	39(a)	40
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Re.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
	_				200 mm		- Avga					**					<u></u> ,	
43,546 6,408	1 1	494	47,310	6,629	91 13,323	90,947 58,875	47,639	:. ::	27,058	74,697	43,546 47,859		494	94,949 18,777	27,149 19,952			1,65,644 87,082
69,954	-	491	59,331	6,629	13,414	1,49,822	47,639		27,058	74,697	91,405		494	1,13,726	47,101			2,52,726
27,209 48,750	::	1,030	71,755 67,323	14.198 17,115	15,967 9,346	1,29,129 1,43,564		=			27,209 66,945	=	1,030	71,755 70,498	30,165 26,461	Ξ	=	1,29,129 1,64,929
75,959 45,913		1,524	1,89,078	31,313 37,942	25,313	2,72,693	47.000				94,154		1,030	1,42,248	56,626			2,94,058
10,010		1,029	1,00,900	57,042	05,121	4,22,515	47,639		27,058	74,697	1,85,559		1,524	2,55,974	1,03,727			5,46,784
13,283 1,313	::	45 93	4,543 282	18,062 3,087	849	36,782 4,775	::	:::		=	13,283 1,313	Ξ.	45 93	4,543 282	18,911 3,087	:	::	36,782 4,775
14,596	-	138	4,825	21,149	849	41,557					14,596		138	4,825	21,998			41,557
12,775		1,008	6,782 779	6,398 1,208	4,652 959	31,615 4,774	850	500 627	526	1,876 627	12,775	::	1,008	7,692 719	12,076 2,794		:::	33,55t 5,341
14,519	-	1,092	7,561	28,755	6,460	36,389	850	1,127	526	2,503	29,115		1,092	13,236	36,868	-:		38,892 80,449
	-					The last												
200			917	612	2,041	3,770	::	::	=	-	1,886 200	=		917	2,653	:	=	1,886 3,770
200			917	612	2,011	3,770					2,086			917	2,653			5,056
75,228	-	2,754	2,11,712	67,300	47,228	5,04,231	48,489	1,127	27,584	77,200	2,16,760		2,754	2,70,127	1,43,248			6,32,889
48,100 1,705	1 1	::	24,962 14,461	36,137 4,317	40,362 14,624	1,49,561 35,107	13,801 1,979	:	7,692 6,016	21,493 7,995	48,100 10,931			38,763 16,440	84,191 24,957	::		1,71,054 52,328
49,805			39,423	40,454	54,986	1,84,668	15,780		13,708	29,488	59,031			55,203	1,09,148			2,23,382
											13,002							13,002
											5,908							5,908
-	1:										18,910		-					18,910
11111	11111	:::	::	===	===	# # #				=	28,614 4,473 6,924 8,971	::	::	3,44,346	83,881 482 52,541	=		4,56,341 4,478 7,406 72,161
19,805	-		90 400	40.454					19.709	90.498	1,26,923			3,54,995	1,36,404			7.89.873
25,033	-	2,754	39,423	1,07,763	1,02,214	6,88,899	26)	1,127	13,708	1,06,688	3,43,683		2,754	6,80,325	3,88,800			7,82,673
	1	1					100200	10000										

FOR EUROPEAN EDUCATION.

EDUCATION-GENERAL TABLE V.

Return of the Stages of Instruction of Pupils in Public European Schools for Secondary and Primary Education in Bengal at the end of the official year 1905-1906.

	T	31st	Hier	H STAG	в.	Middi	LE STA	GB.	UPPER ST	PRIM.	ARY	L	OWER	PRIMA	RY ST	AGB.				
Crass of Schools.		and the	Comprisi who h beyond Seconds Stage, h passed lation or an of an standar	the ary (M but have the Micesamir Examir	Lower [iddle) ve not atricu- nation,	Comprisi who I beyond Primar have beyond Second Stage.	have the y Stag not the	Upper ge, but passed Lower	Primar	have i the ry Star not i the	Lower ge, but passed Upper	Readi	prising t passed Pring pring prooks.	g all pud beyond imary to	Not	reading ted but	ng	To	OTAL.	
	s Jo	90		1			2			8			4			5				
	Number of schools.	Number March.	Boys.	Girls.	Total.	Boys.	Girls.	Total.	Boys.	Girls.	Total.	Boys.	Girls.	Potal.	Boys.	Line	1	Boys.	100000	0.00
1	2	8	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
SECONDARY SCHOOLS FOR BOYS. (English and Vernacular.)											49	32		32				164		164
Government English	1 11 3	164 2,045 826	117 131		"i17 131	84 605 320	"is	84 619 820	48 561 269	"i2	48 573 269	727 106	9	736 106	=		:::	2,011	34	89
Unaided "Total	15	-	248		248	1,010	13	1,023	878	12	890	865	9	874				3,001	34	3,00
SECONDARY SCHOOLS FOR						15177				100										
(English and Vernacular.)					586	100,000	53	53	SHELL	39			25	25			-	625	117 2,597	11 3,11
Government English	28 	3,222		78	82	21	671	692	88	638		512	1,210		:::		-		-	1
Unaided " Total	29	-	-	-	82	21	724	745	88	677	760	_	-	101 701				625	2,714	-
Total Secondary Schools for boys and girls.	44	-	-	78	830	1,031	787	1,768	966	689	1,65	5 1,377	1,244	2,621	-	-	-	3,626		91-
PRIMARY SCHOOLS FOR BOYS-		7 474							76		200 POLITICA		384 (3)4535.73	850			-	325	149	47
Aided		C77 77779		-					7	6 48	_	24 249	101		-		-	005	149	4
Total	-	7 474	4			-				-	-									
PRIMARY SCHOOLS FOR GIRLS.	1	6 94			·	_			4	10 14	1 18	84 27		6 756 8 13	3					
Unaided	-	8 954	_			-			4	_	5 1	86 27	5 49	4 769				316	-	-
Total Primary Schools for	-	8 95	_	-	-			20 10 100	11	7 19	3 3	10 52	4 598	5 1,118	9			641		3 1,4
boys and girls. GRAND TOTAL FOR 1905-1906 for Secondary and Primary Schools	-		_			1,031	787	7 1,768	1,08	88 88	1,90	85 1,90	1,83	9 3,740	0	-		4,267	7 8,53	3 7,8

REPORT OF THE COTTON CROP OF BENGAL, 1906.

THE following note is published for general information.

R. W. CARLYLE,

Chief Secy. to the Govt. of Bengal.

The 19th December 1906.

DEPARTMENT OF AGRICULTURE, BENGAL.

REPORT ON THE COTTON CROP OF BENGAL, DECEMBER 1906.

[On an average of the five years ending 1904-1905, the area under cotton crops in the territory to which the present forecast relates has represented some 0.6 per cent. of the total area under cotton crops in India.]

Explanatory.—The forecasts of the cotton crop issued in August and October dealt with the area sown with cotton this year, and with the general condition of the crop. The present forecast deals with revised estimates of the area sown, and furnishes also an estimate of the probable outturn.

Character of the season.—Of the early cotton-growing districts of Bengal, the Sonthal Parganas, Sambalpur, Manbhum, Singhbhum and Angul are the most important. The climatic conditions in these districts, covering 81 per cent. of the entire early cotton area, as well as in the other early cotton districts, Sambalpur excepted, were favourable throughout the season. In the last-named district, some little damage was done to the crop by heavy rain during the flowering season in October.

In Saran, the most important of the late cotton districts, and also in Champaran, Darbhanga, and in the Sadar subdivision of Muzaffarpur where late cotton only is almost entirely grown, the crops suffered to a very considerable extent from excessive rain and floods. From the other late cotton districts, the prospects are reported to be satisfactory.

Area sown.—The area sown with early cotton this year

Area sown.—The area sown with early cotton this year is estimated at present at 37,428 acres against 37,400 acres shown in the October forecast, and against 36,504 acres estimated in December last year. The area sown with late cotton amounts to 32,376 acres up to date. Sowings are reported to be still going on in Cuttack.

Outturn.—The outturn of early cotton, calculated from the data furnished by District Officers, comes to 5,763 bales of 400 lbs. each, and that of late cotton, similarly calculated, to 9,363 bales. Supplementing this produce with an additional 5 per cent. crop for the fibre grown in the Native

1984 SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 26, 1906.

States, for which statistics are not available, the total aggregate outturn for the Province works out as follows:—

Early cotton 6,051
Late ,, 9,831

Gross total of both varieties ... 15,882

C. A. OLDHAM,

Director of Agriculture, Bengal.

CALCUTTA; The 11th December 1906.

Forecast of the cotton crops of Bengul, December 1906.

		(Remarks by District Officer.	18		-	-	H-	very poor. Early cotton is not grown	5 The general condition of the crop is good,	The general condition of	be good so far.
RVEY.	Saltub aot	Area found under cot the cadastral survey.	14	Астев		avail-	88	1	CR 401	1	1
PIGURES FROM THE CADASTRAL SURVEY.	[anteabas e	Years during which the survey took place.	13		ı	188948 to 1904.	1900. 1893 1898.	,	1900-01	1	1
CADAS	trict which	Total area of the dis	13	Acres.	1	15,210	\$ 56,342	ı	73,164	i	ı
	which (+)	Column 9.		Ten years.	1	+48.47	-77.49	:	-61.74	1	1
YIRLD (IN BALES OF 400 Ibs, BACH).	Percentage by which column 7 exceeds (+) or is less than (-) yield in-	STEELS IN THE STEELS IN T	u	Five years,	ı	+ 60.82	-80.58	1	-34.37		1
400 lbs.	Percer column or is l	Column 8.	10		:	1	-74.98	ı	-12.83	+20.00	+88-12
ALES OF				Ten years.	;	916	914	ı	426	1	1
D (IN B		Average of preceding-	0	Five years.	1	845	927	1	248	1	1
YIEL	ni asta lo	Of previous year, 4.6.,	60		1	1,860	113	1	187	10	234
	nt assa to	Of current year, 6.6.	7		188	1,360	113	1	168	21	204
	which ds (+)	Column 4.	•	Ten years.	'n	-5.03	-9.57	1	-14.34	1	ı
	Percentage by which column S exceeds (+) or is less than (-) area in—			Five years.	1	+6.39	-9-57	. 1	+18.18	1	1
RES).	Percen column or is	Column 3.	20		ı	1	1 19		-13.33	+108.67	60.6+
REA (IN ACRES).		Surpose of the advance		Ten Fears,	1	1,790	1,580	1	1,520	1	1
ARE		Average of preceding		Five years.	,	1,600	2,120		1,100	ı	1
	.(90-2081) aq	Of previous year's cro	93			1,700	1,700	1	1,500	8	1,100
	*(40-9061) B	Of current year's crop	69		365	1,700	1,700	1	1,300	88	1,200
			1		Sarly	"Late	Early	Early	Cate	{Barly	Cate
					Kankusa		Midnapore	Patna		Shahabad	

AL SUBVEY.	Percentage by which column 7 exceeds (+) or is less than (-) yield in-	Average of preceding—Odumn 8. Total area of the of the been cadastrally anything whi survey took place. Area found under the conductor took place.	9 10 11 12 13 14	Ten. Acres. A years. A years. A 1803 to 1 1901.	The excessive August damag. 758 886 +15972 -78'41 2,229,840 1892 to 2,094 considerably.	2,115, 1,939 +48'08 -29'11 -22'64 1,942,400 1891-92 6,100 in some places and in chees the crop was beneated the control others the crop was beneated the control of the con	477 1,635 +19'46 -13'00	. 88 66 +100'00 -68'97 -72'73 2 oas sae 1901 to Not re-
YIELD (-	M current year, 1.0., column 2. It previous year, 4.0. column 3.		144 210	188 ST 252 ST 25		13 ··2 32-70 415 369	9 81 9
ACRES).	Percentage by which column 2 exceeds (+) or is less than (-) area in-	olumn 3.				28.09 - 98.08 - 45.08	+18'86 91'86 -	D. O. D. C.
AREA (IN ACI		- guibsoard to адагау	v -	Five Ten years, years, 14,440 25,220	2,040; 2,120	 6,107 5,768	1,880 5,860	
	(1902-061)	previous year's crops	10 %	525	1 888	4,051	16	286
	(70-806	current year's crop (1	10 %	500	1,067	3,000		
		District.			Champaran (Barly	Musaffarpur Early		

-	1902 to 43 The decrease in the out-	damage caused by floods.	1889 to 14,519 The general condition of	0	2,604 Scanty rainfall	1890 to drawing and also at the time of growth has affect ed the outturn this year. The sowing of late cotton	will continue till the end of December in this dis- trict.	1111	date	Although	surveyed, separate figures were not ascertained	422 Cotton is no	sion. The present condition of the cotton crops is good.	00 000	-		The general condition of the crop is very satis-		The district is being sur. The season is favourable	o mo crop.	7 1,434 The weather was more favourable than last year,
	948 190	_	100	1887		and 1899 to 1901.		78 1891-92	1894-95.	1889-90		60 1888-89		1004 40			!!	_	trict is	_	1896-97
	1,057.9		\$ 2,756,190		2,088,437			1,095,778		563,840		1,599,860		90 887 6	or come to		1 1		The dis		187,520
1-97.44	1,057.948	-38.49.7	2 :	C31798-			04111		C 100 20 -	-	(17-90-	\$10.06-		+21.24	<u> </u>	2	21-00-12	60.00	- S :	- 80-96	~
-95.93	2000	-34.50	1	-86-79	33430		- 04-06	-36.59	26.66+		-88-60	- 86'31		+5.39	ı	88.98	8 :	-78.57	:	-86.18	-
-33-33	-	+5.80	-	-33.29							-16.67	-20.69		+23.18	1	+1-90		+64	,	+133-87	1
2,344	355	3,345	1	889	858		9335	30	504	284	480	231		286	1	1.684		1,322	. ;	1,444	
1,74	260	3,145	. 1	655	936		143	41	308	207	307	168	i	1111	I	1,147	ı	908	1	1,049	1
06 !	n	1,947	1	131	204		0	28	875	i	45	65	203	100	4	168	i	204	14	8	1
09	4	2,060	1	87	1		6	38	375	i	88	23	996	8	•	168	i	213	1	145	
-96-18	ı	-711.	1	-81.62	1		80.06-	+30.72	-23.08	i	- 92.29	-85.64	19.167	10 12	1	+0.16-	1	-65.70	1	-83.02	1
19-86-	ŧ	+5.31	ı	-82.39	1		-82-00	H.II.+		1	-87.68	-73.36	71-6-1	-	ı	- marine	ı	-40.14	ı	-76-85	ì
i	1	1	1	-28.57	1		i	-1	- 1		+1.29	-28*09	+ 23.06		l'	-32.25] -86.34	1		1	ŧ	ı
7,860	1,907	11,520	1	2,720	4,029		635	153	2,600	1,440	3,170	1,740	7,976		•	6,580	i	4,960	1	906'9	ı
4,740	1,255	10,160	1	2,540	4,040		350	180	2,000	1,380	1,900	1,120	9,404			3,660	1	2,840	1	4,320	1
300	75	10,700	1	700	3,100		8	200	2,000	7	232	420	7,882			738	1	1,700	1	1,000	1
300	•	10,700	1	200	1		8	200	2,000	1	235	302	9,700	1	odani setelaj	200	1	1,700	1	1,000	1
1	1	!	1	1	1		1	1	1	1	i	1	1			1	1	i	i,	ı	ī
Barly	Late	g Barly	I.ste	Sarly	Late		g Early	Late	garly	Late	Early	Late	(Early	Late		Early	Late	(Early	Late	(Early	(Late
Bhacalnur (Barly	To Grand D	Sonthal Barly	Parganas'	Jackson	University Late		g Early	DIO MA	Angrel		Purt			Sambalpur { Late		Hazaribach SEarly		Ranchi		Palamau	

	Domerte hy District	O曲cers.	15	The low outturn is due to want of timely rain.	The general condition of the crop is good.	
DAS-	tton during	Area found under co	14	Acres.	\$1,813	1 1
FIGURES FROM CADAS- TRAE SURVEY.	[artanbao r	Years during which survey took place.	13	1 1	1895 to 1897 and 1900 to 1902.	1 1
FIGURE	rict which surveyed,	Total area of the distribution of the distribution of the contraction	12	Acres.	}1,761,984	1 1
	rhich			Ten years. - 60-80	-57.97	-65-22
EACH)	Percentage by which column 7 exceeds (+) or is less than (-) yield in—	Column 9.	п	Five years54.76 +11.52	-55-59	-57 29
YIBLD (IN BALES OF 400 lbs, EACH)	Percent column or is le	.8 nmuloO	10	+14.70		+9.54
ALES OF				Ten years. 1,990	1,475	16,568
D (IN B		Average of preceding—	6	Five years. 1,724 588	1,396	13,492
YIBL	ni aesa la	Of previous year, i.e., conumn 3,	0	089	620	5,763 5,261
	ni seus l	Ot current year, i.e., column 2.	-	780	620	5,763
		*		Ten years. -58-42	-17'86	-46.05
	Percentage by which or is less than (-) area area in-	* umnlo;	0 0	Five years.	4.11.11	-88.38
RES)	Percent column or is le	e amulo	0 10	114.73	1 1 :	+6.68
AREA (IN ACRES)				Ten years. 9,380	4,870	69,381
AREA	—Saibeceug to eganey.		V -	Five years.	4,300	56,184
	.(30-3061)	f previous year's crops	0 %	8,400	4,000	35,086
	.(70-8061	contront year's crops (0 0	3,900	4,000	37,428
		RIOT.	1	Rarly	Rarly	Early
District				Manbhum	Singhbhum	Total

RESOLUTION ON THE EMBANKMENT AND DRAINAGE REPORTS FOR THE YEAR 1905-1906.

No. 2598I.

Government of Bengal

IRRIGATION DEPARTMENT.

IRRIGATION.

Dated Calcutta, the 22nd December 1906.

RESOLUTION.

READ-

The Embankment and Drainage Reports for the year 1905-1906.

A summary of the expenditure incurred on works and repairs (exclusive of book charges for establishment and tools and plant) during the year on embankments and drainage works in Bengal is given in the following statement:—

	1905-1906.
I.—Embankments—	Rs.
Class A.—Government embankments in Orissa Class B.—Schedule D and other Government embank-	49,195
ments	2,63,654
Class C.—Maintained by Government under contract with zamindars Class D.—Maintained by Government with an annual	1,06,082
apportionment of charges on estates benefited II.—Works undertaken under the provisions of the Drainage	7,166
Act, VI (B.C.) of 1880 III.—Works undertaken under the provisions of the Sanitary	11,916
Drainage Act, VIII (B. C.) of 1895 IV.—Drainage works carried out under the provisions of the	1,81,254
Embankment Act, II (B. C.) of 1882	39,228
V.—Drainage works carried out at the cost of Government, but not under the provisions of any Act	24,025
Total	6,82,520

2. Lengths of Embankments and areas protected.—The lengths of embankments in each class and the areas to which they give protection are shown below:—

Oirole.		Class.	e day to d	Len	igth.	Areas protected.
1	2				4	
Orissa {	A B O D	 	::	Miles. 516 315 6	Feet. 1,565 1,793 1,146 Nil.	Acres. 644,691* 446,880 44,800 Nil.
South-Western {	A B C D	Total Total		837 762 236 8	4,504 fil. 3,793 1,014 1,456 983	Nil. 2,928,108 252,646 79,571 3,260,325

^{*} In addition to this area 540,000 acres are efficiently protected by the flood banks of the Orissa Canals, the total length of which is 293 miles 4,678 feet.

	Circle.			Class.		L	ength.	Areas protected.
1			2				4	
						Miles.	Feet.	Acres.
Gandak		{	A B C D		::	234 56	Nil Nil 100 2,740	Nil. Nil. 4,039,680 196,320
				Total		290	2,840	4,236,000
Northern		}	A B O D		 	6	Nil Nil* Nil 1,694	Nil Nil. 17,042
				Total		6	1,694	17,042
Abstract			A B C D	Property and the second	::: :::	516 1,078 476 71	1,565 306 2,260 610	644,691 3,374,988 4,337,126 292,938
				Total		2,141	4,741	8,649,738

^{* 1,681} feet of spur embankments, Panar river, were maintained during the year at Government expense.

There has been a net increase of 1,673 feet in the length of the class A embankments in Orissa, mainly due to the construction of retired lines. In the South-Western Circle, there was an addition of 507 feet to the length of schedule D embankments owing to the construction of a cross bund at Mowah in the district of Murshidabad connecting the Bhagirathi left embankment with the Bhagawangola retired line. The Rampur-Boalia embankments (Schedule D, Nos. 55, 56, 56A and 56B) in the district of Rajshahi were transferred to the Government of Eastern Bengal and Assam during the year, as also the embankments in the districts of Malda, Pabna and Bogra. The aggregate length of these embankments is 10 miles and 2,050 feet.

were low and no damage was done to any of the Government works except two small breaches in the left embankment of the Bhargovi river. These were promptly closed. There was, however, a very unusual winter flood in the Brahmini and Kharsua rivers which caused some damage to the dalua rice crop. In the Gandak Circle there were no heavy floods during the year. The Gandak river rose on 30th July to 240.60 at Siswa, 242.40 being the highest recorded flood level. The flood level in the Ganges at Bazitpur was 4.05 lower than that of the previous year. The highest flood in the Bagmati in September rose to 185.32, at Belahiaghat against 190.40, the recorded flood level of 1893. The Burgandak river at Secunderpur rose to 176.40 on 12th August. This was only 1.30 below the highest recorded reading.

There were heavy floods in the South-Western Circle and the embankments were damaged. The highest flood of the year in the Cossye river occurred on the 30th September. The highest flood in the Selye and Rupnarain (or Darkeswar) rivers was on the 29th July. There were three floods in the Damodar between July and September. The highest was on the 29th July, when the gauge at Edilpur read 16 feet 6 inches, which is the same as the maximum recorded flood level of 1902. No serious damage was done to the embankment, but the bamboo spurs at the base of the removed embankment on the right bank at Nathu, Sadipur and Srikistopur were slightly damaged. The flood in the Ajai river on 29th July was 3 feet 9 inches lower than the highest recorded level of 1899. The river protective works were slightly damaged. The floods in the rivers in the Purnea and Bhagalpur districts were of ordinary character and caused no injury to the embankments.

4. Surveys and investigations.—In the Orissa Circle investigations were made into the existing village irrigation system in the district of Puri, while the possibilities of further irrigation from the Salia river were under investigation. Investigations in regard to the question of the maintenance of the channels of approach to and discharge from all the sluices in the embankments were completed. In the Gandak Circle surveys in connection with a proposal formula of the channels of the complete of the channels of the channe nection with a proposal for a sluice and channel from the Bya river were carried out. In the South-Western Circle surveys were made of the schedule D embankments with the object of establishing a record of the formation level of the crests of those embankments. Surveys were also made of the villages exposed to inundation by the removal of the Laltakuri marginal embankment in the Murshidabad district.

5. Original works.—The outlay of the year (without charges for establishment and tools and plant) under this head amounts to Rs. 64,473 distributed

over the different classes of embankments as under:-

d on this other will			1905-1906.	1904-1905.
			Rs.	Rs.
Class A			15,385	20,560
" B		•••	49,088	16,674
" C			Nil.	Nil.
" D	North Control		Nil.	1,104
	Total		64,473	38,338

The more important works are briefly noted:

In the Orissa Circle the two escapes on the Kushbhadra river referred to in last year's report were completed at a total cost of Rs. 13,470, the experditure of the year being Rs. 11,680. The stone paving at the head of Tantighai on the right bank of the river Khursuah was in progress at the end of the year. The construction of a permanent escape at Achootpore in the 5th mile Bhargovi left embankment, was completed during the year, the total cost being

In the South-Western Circle an expenditure of Rs. 29,160 was incurred assing the embankment on the left bank of the Hooghly. The work was on raising the embankment on the left bank of the Hooghly. nearly completed at the close of the year. A sum of Rs. 15,638 was expended on the embankments along the Nadia rivers principally on the strengthening of the Bhagwangola retired line.

In the Gandak Circle the construction of the drainage sluice in the 6th mile of the Bazitpur embankment referred to in last year's report was completed

except the outfall and the approach channels.

6. Ordinary repairs.—The expenditure on repairs (without book charges for establishment and tools and plant) aggregated Rs. 3,32,049, which is distributed under the different classes of embankments as follows:—

				1905-1906.	1904-1905.
C 1 .				Rs.	Rs.
Class A	***	***	***	33,810	26,689
"В		•••		2,14,566	2,36,572
" 0		200		1,06,082	1,27,828
" D				7,166	5,058
		Total		3,61,624	3,96,147

The expenditure on repairs to the Orissa embankments was Rs. 33,810, against Rs. 26,689 in the previous year. The total cost of repairs to the schedule D embankments (class B) in the Midnapore district which are in the Orissa Circle was Rs. 29,012, of which Rs. 3,452 were expended on retired lines of embankments, Rs. 5,028 on making a diversion cut of the Raniakhal at the 20th mile of the sea-dyke.

In the South-Western Circle, the expenditure on ordinary repairs to Schedule D and other embankments was Rs. 1,42,392, against Rs. 1,02,629 in the previous year. The excess took place chiefly in the districts of Burdwan,

Hooghly, Midnapore, Murshidabad and 24-Parganas.

The heavy expenditure in the Burdwan district was due to repairs done to the Damodar left embankment. The excess in the Hooghly district was due to repairs and extensions of the stone revetments in the Rupnarain left embankment and the Damodar left and right embankments. The comparatively heavy expenditure in the Murshidabad district was chiefly due to

extensive repairs to the Bhagirathi embankment.

On (class C) takavi embankments under contract in the Midnapore, Muzaffarpur, Saran and Champaran districts, a sum of Rs. 1,06,082 was expended during the year, as compared with the contract provision of Rs. 1,05,070. The outlay incurred on the maintenance and special repairs of the Gandak embankments was Rs. 66,984, against Rs. 65,286 in the preceding year. The amount spent on special repairs was Rs. 48,894, against Rs. 43,317 in the preceding year. The expenditure on repairs to the Midnapore embankments in the Cossye and Balasore Divisions was Rs. 39,098, against Rs. 60,303, of the previous year.

On (class D) takavi embankments the outlay incurred on repairs was

Rs. 7,166, against Rs. 5,058 in the previous year.

7. Breaches .- In the Orissa Circle only two small breaches occurred in

the Bhargovi left embankment.

In the South-Western Circle 15 breaches occurred in the schedule D embankments and three in the takavi embankments. The total expenditure embankments and three in the takavi can also damage caused by flood was incurred in closing breaches and in making good damage caused by flood was incurred in closing breaches and in making good damage caused by flood was incurred in closing breaches and in the previous year. There were no breaches Rs. 34,443, against Rs. 32,693 in the previous year. in the embankments in the Gandak and Northern Circles.

8. Retired lines. - In the Orissa Circle the amount expended in constructing retired lines of embankments, including in this head slope-cutting which is an alternative measure, was Rs. 6,546, against Rs. 5,064 in the previous year. In the South-Western Circle the cost of constructing retired lines in the Burdwan, Midnapore, Murshidabad and 24-Parganas districts was Rs. 8,100, against Rs. 63,165 in the previous year. No retired lines were constructed in the Gandak and Northern Circles.

9. River protective works .- In the Orissa Circle the total outlay incurred on repairs to the revetment and river protective works was Rs. 4,883, against Rs. 675 in the preceding year. The expenditure on river protective works in the Gandak Circle amounted to Rs. 4,110, against Rs. 6,482 of the year before.

10. Financial.-The actual outlay during the year on the Orissa embankments (class A) maintained as agricultural works, exclusive of charges for establishment and tools and plant was Rs. 33,810, against Rs. 26,689 in the previous year, the average rate per mile being Rs. 65. The expenditure on class B Government embaukments was Rs. 2,14,566, against Rs. 2,36,572 in the previous year, the average rate being Rs. 199, against Rs. 217 in 1904-1905.

Government has contracted to maintain certain embankments on behalf of the persons benefited at a fixed annual charge in the districts of Saran Champaran, Muzaffarpur and Midnapore. The following statement shows the expenditure incurred on these embankments as compared with the contract payments:-

	8	MIDNAPORE	DISTRICT.	SARAN DI	FTRICT.	CHAMPARAN	DISTRICT.	MUZAFFARPUR DISTRICT.		
YRAR.		Maintenance charge.	Contract amount.	Maintenance charge.	Contract amount.	Maintenance charge.	Contract amount.	daintenance charge.	Contract amount.	
1		2	8		5	6	7	8	9	
		Rs.	Rs.	Rs.	Ra.	Rs.	Rs.	Rs.	Rė.	
1900-1901 1901-1902 1902-1908 1903-1904 1904-1905 1805-1906		\$1,100 26,899 27,295 60,303 39,018	56,291 56,291 56,291 50,763 50,755	14,704 5,919 12,353 25,503 43,587 26,105	\$3,900 \$3,900 \$3,900 23,900 23,900 23,900	4,815 12,394 29,874	20,000 20,000 20,000	7,451 11,544 11,005	10,41 10,41 10,41	
Total		1,84,695	2,70,383	1,28,201	1,43,400	47,083	60,000	30,000	31,2	

Note. -The figures in this table under column "Maintenance charge" represent the cash cutlay on maintenance and repair without any book charges for establishment or tools and plant.

^{11.} Works undertaken under the provisions of the Drainage Act, VI (B. C.) of 1880 .- The Dankuni, Howrah, Rajapur and Burajalla drainage works in

the Hooghly district in charge of the Executive Engineer, Northern Drainage and Enbankment Division, were maintained in good order during the year The cost of their maintenance compared with the previous year is shown

		1904-1905.	1905-1906.	Annual amount fixed for maintenance.
Dankuni Howrah		Rs. 1,119 3,071	Rs. 1,126 5,303	Rs. 4,300 2,000
Rajapur Brrajalla	alaha	} 7,828	7,753	5,000
	Total	12,018	14,182	11,300

There was some loss of crops in a small area in Rajapur basin, due to the flow from Ampta basin which is at present undrained. The income overflow from Ampta basin which is at present undrained. The income derived from land-rent, fisheries, tolls on boats and other sources has hitherto been credited to the Civil Department. It has since been decided that all

receipts shall be finally adjusted in the books of this Department.

Towards the close of the year a proposal was sent up by the Collector of Nadia for the drainage of the Choriucole swamp near Kumarkhali in the Kushtia subdivision of the district under the provisions of the Bengal Drainage Act, VI (B. C.) of 1880. The project which will be carried out through the agency of the District Board, Nadia, has received administrative sanction at an estimated cost of Rs. 24,611 and Drainage Commissioners have been appointed.

12. Works undertaken under the provisions of the Sanitary Drainage Act, VIII (B. C.) of 1895.—The only work taken up under the Sanitary Drainage Act is the Magra Hat drainage scheme in the 24-Parganas district. It is designed to drain the swamps around Magra Hat in the central portion of the tracts enclosed by the 24-Parganas embankments. The swamps are mainly those along the Kaorapukhar khal, near Hotar, those connected with the Surjipur sluice, those at Joynagar and along the Srichandra and Sangrampur khals, as well as north of the railway near Sangrampur and at Dhosa and Habka. The rough estimates amounting to Rs. 17,39,000 have been approved by the Municipal Department of this Government. The work being very urgently required has been put in hand in anticipation of the sanction of the Secretary of State which has been applied for.

During the year under review Rs. 1,68,775 were spent on work and

Rs. 12,479 on the acquisition of land.

13.-DRAINAGE WORKS CARRIED OUT UNDER THE PROVISIONS OF THE EMBANK-MENT ACT, II (B. C.) OF 1882.

Original works .- In the South-Western Circle, the embankment on the left bank of the Peali river with two sluices was completed during the year at a total cost of Rs. 71,979, the expenditure of the year being Rs. 6,596. Work was in progress during the year on the construction of a sluice at Dhutkhali in the 108th mile of the 24-Parganas embankment. The expenditure during and to end of the year was respectively Rs. 9,588 and Rs. 15,412. Arrangements were made to start work during the year on the construction of a sluice at Fulbagicha in the 131st mile of the schedule D embankment, No. 78. A scheme was prepared for improving the drainage of the Arapanch basin in the 24-Parganas, which involved a new length of embankment and a new sluice. The matter is still under consideration. In the meantime the outfall channel leading from the existing sluice in the embankment has been cleared which will give relief for some years. In the Orissa Circle the silt-clearance of the Kunjapur and other khals was completed during the year at a total cost of Rs. 19,432, the expenditure of the year being Rs. 3,872. A project for the drainage of the lands within the Argoal circuit embankment was commenced during the year and a sum of Rs. 14,669 was expended. The construction of the sluices in the 15th mile of the Kalinagar Hassia embankment (schedule D, No. 45) and in the 12th mile of the Jalpai embankment (schedule D, No. 53) referred to in the previous year was completed.

Maintenance and repairs .- The Charrial khal drainage scheme was main tained in good condition during the year at a cost of Rs. 2,492, against Rs. 854 in the previous year. With a few exceptions all the sluices in the schedule D embankment, 24-Parganas district, were efficiently maintained during the year at a total cost of Rs. 1,634. The Kumrool sluice and channel in the 53rd mile of the Damodar left embankment were repaired and maintained during the year at a cost of Rs. 377.

14.—DRAINAGE WORKS CARRIED OUT AT THE COST OF GOVERNMENT, BUT NOT UNDER THE PROVISIONS OF ANY ACT.

Original Works .- A commencement was made in the improvement of the drainage channel from Daudpur to Utterpadima, known as the Tajpur drainage

project, in the Contai subdivision of the Balasore Division.

On the Bullee Bhil in the South-Western Circle Rs. 5,066 were expended on repairs and maintenance. In the Balasore Division the Balliaghye main drain was kept open to traffic throughout the year, while the branch drain from 0 mile to the 6th mile post was closed to traffic for silt-clearance from 1st January 1906 till the end of the year. A sum of Rs. 8,139 was spent on silt-clearance and the work was in progress at the close of the year. The outlay on the silt-clearance of the khas tansil khals in charge of this Department was Rs. 9,217.

Order .- Ordered that a copy of the Resolution and of its appendices (A and B) be published in the Supplement to the Calcutta Gazette and submitted to the

Government of India, Public Works Department, for information.

Ordered also that copies of the Resolution and of its appendices (A and B) be forwarded to the Revenue and Financial Departments of this Government; the Secretary to the Board of Revenue, Lower Provinces; the Commissioners of the Presidency, Burdwan, Patna, Bhagalpur, Chota Nagpur and Orissa Divisions; the Director-General of Commercial Intelligence; the Superintending Engineers of the Orissa, South-Western, Sone, Gandak, and Northern Circles; and the Examiner, Public Works Accounts, Bengal, for information,

By order of the Lieutenant-Governor of Bengal,

W. A. INGLIS,

Secretary to the Government of Bengal.

GOVERNMENT OF BENGAL.

IRRIGATION DEPARTMENT.

APPENDIX A.

of Public Embankments in Bengal, in charge of Government officers showing their lengths and actual cost of repairs (without charges for Establishment and Tools and Plant) during the year 1905-1906.

	region for the	en anna ann an t- each ann an t-ann an	Miles	OF EMBANE	MENTS.				E	EPBNDIT	RB OF	THE YEA	R ON	REPAIRS		
	tonistanis juh roja orași	expense	ned at the of Govern-		d at the expe sons benefite			Clas	s Δ.	Class	В.	~ (1	ass C.		Class	D.
e of ril sion.	DISTRICT.	Class A.	Class B,	Under Contract.	By annual apportionment of charges.	Total.	Total miles of embank ments.		Rate per mile.	Total.	Rate p-r mile.	Total.	Rate per mile.	Con- tract rate.	Total.	Rate peri mile
			40	Class C.	Class D.				State of the state							
1	2	3	•		6	7	8	9	10	11	12	13	14	15	16	17
		M. Pt.	M. Ft.	M. Ft.	M. Ft.	M. Ft.	M. Ft.	Re,	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs
	ORISSA EMBANK- MENTS MAINTAIN. ED UNDER ACT XXXII of 1855.		de engl													
	Balasore Cuttack	51 3,220 215 4,284 248 4,621		=	=	=	51 3,220 215 4,284 248 4,621	6,60° 17,496 9,700	81	=		::		=	=	=
	Total Orissa Embankments.	516 1,565	hora.				516 1,565	33,81	-	==			Ξ		===	
	EMDANKMENTS OTHER THAN ORISSA MAIN- TAINED UNDER ACT II (B.C.) of 1882.		(M2)	April 174 Table			Augus Vini									
{	Musaffarpur Darbhanga Saran Champaran	::		52 400 118 5,222 62 5,038	27 2,740 17 3,960	79 3,140 17 3,960 118 5,222 62 6,038	79 5,140 17 3,960 118 5,222 62 5,038	=	:::	:	1111	11,005 26,105 29,874	211 219 474	10,415 23,900 20,000	1,411 1,360	5 7
	Total	-	***	234 100	45 1,420	279 1,520	279 1,520					66,984	286	54,315	-	6
12 {	Bhagalpur Purnea Monghyr	Ξ	0 1,666*	=	3 5,960 2 4,014 11 1,320	3 2,960 2 4,014 11 1,520	3 2,960 3 400 11 1,330	=	::	1,009	3,198	=	1	-	526 127 755	14
	Total	***	0 1,666		17 3,014	17 3,014	17 4,680			1,009	3,198		1		1,408	-
M. {	Murshidabad Nadia 24-Parganas		74 877 1 17 209 2,583	=	2 1,320	2 1,320	74 877 1 17 211 3,902	111	*:-	17,376 54 40,700	234 54 194	=		=	 5y5	98
	Total		284 3,476		2 1,320	2 1,320	286 4,796			58,130	204				595	26
E. (Burdwan Birbhum Hooghly Midnapore	=	\$2 1,100 \$ 1,320 164 3,365 643 1,605(a)	242 2,160(b)	6 0 0 136	6 0 242 2,296	82 1,100 3 1,320 170 3,365 785 8, 901	=	=	36,294 861 39,799 78,478	441 265 241 144	39,098	 ië1	5 ,755	2,338	396
	Total		793 2,110	242 2,160	6 136	248 2,296	1,041 4,406			1,55,427	196	39,098	161	50,755	2 392	397
	Total Embank- ments other than Orissa.		1,078 1,972	476 2,260	71 610	547 2,870	1,625 4,842		-	2,14,566	199	1,06,082	223	1,05,070	7,166	101

⁽a) Includes 315 miles, 1,793 feet of Schedule Dembankments in the Balasore Division.

(b) Includes 6 miles, 1,146 feet of Joki embankment in the Balasore Division.

* Sput embankments constructed to protect the Civil Station of Araria.

GOVERNMENT OF BENGAL.

IRRIGATION DEPARTMENT.

APPENDIX B.

Statement showing the outlay incurred, recoveries made, and balance outstanding on account of Embankments and Drainage works (class D) maintained during the year 1905-1906.

CIRCLE.	Names of embankments and drainage works.	District.	Balance at the end of 1904-1905,	Outlay during 1905-1906.	Total out- lay to the end of 1905-1906.	Amount recovered and adjust- ed by Civil Depart- ment during 1905-1906.	Balance unadjusted on 31st March 1906.
-1	9	sufficiency 3	erodin metern	5	6	7	8
	EMBANKMENTS.		Rv.	Rs.	Rs.	Re.	Rs.
COUTH WEST-	Turki embankment Daudpur ditto Bazitpur ditto Monghyr ditto Madarikhal ditto Tolly's Nala ditto Peni left dirto Rajbundi bund Hooghly right embankment from Ulubaria to Champa Khal. Chandan embankment Belwa ditto	Muzaffarpur Ditto Darbhanga Monghyr Hogghly 24-Parganns Ditto Midaspore Ditto Bhagalpur Purnea	862 66	1,594 204 1,663 2,838 595 6,596 54 8,639	1,534 204 1,663 925 2,338 695 6,566 135 8,639	1,594 204 1,663 925 2,338 695 6,596 63 	72 8,639
	Total DEAINAGE WORKS.		1,009	25,342	24,351	14,906	9,445
	Kumrul sluice	Hooghly 24-Parganas Ditto Ditto Midnapore		377 2,492 256 1,378 133	377 2,402 256 1,378 156	377 2,492 256 1,378 154	 2
	Total		23	4,636	4,659	4,657	2
	GRAND TOTAL		1,032	27,978	29,010	19,568	9,447

(COMPILED BY THE BOARD OF REVENUE.)

Statement of recoveries made during the year ending 31st March 1906 on account of embankments (class C) maintained under the contract system.

	Annual	Arrear due from.	Advance	Net		COLL	ECTIONS.		
District.	demand.	previous years.	payment at credit.	demand.	Current.	Arrear.	Advance.	Total.	Balance
1 -	2	3	•	- 5	6	7		9	10
the realist series	Rs.	Rs.	Re.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Saran (Gandak embankment)	23,608(a)	10,008(c)	850	* 32,766	15,514	9,281	928	25,703	7,991
Champaran (ditto)	20,009	5,524	14	25,519	16,593	5,480	. 823	22,396	3,445
Muzaffarpur (ditto)	8,308	6,611(d)	1,518	13,401	2,171	5,026	1,4:3	8,610	6,204(f)
Darbhanga (ditto)	2,115	1,356	167	3,304	867	1,040	118	2,020	1,397
Midnapore (Midnapore embank- ment).	50,757(b)	36,621(e)	3,986(e)	83,399	24,275	36,621	4,264	65,159	21,753(g)
Total	1,04,797	60,120	6,185	1,58,382	59,420	57,428	7,041	1,23,858	40,790
	1,64	,917			1,16,	848			

⁽a) The difference of Rs. 3 in column 2 as compared with the last year's return is due to the increase of Rs. 3 in embankment cess demand owing to increase in the land revenue jama of certain estates by reset lement.

⁽b) The difference compared with the last year's return is due to the actual annual demand having been shown here.
(c) The difference of Rs. 3 in column 3 is due to the correction made in the assessment of two columns.

⁽d) The decrease of Re. 1 is due to partitions and omission of fractions of a rupee less than eight annas.

(e) The difference of Rs. 111 and Rs. 351 in the figures shown in columns 3 and 4 as compared with the figures shown in columns 10 and 8 of the last year's return is due to the transfer of some advance amounts to the arrears due from certain estates.

(f) Out of this a sum of Rs. 340 has been collected since the close of the year and for the remaining action will be taken under the certificate procedure.

⁽⁹⁾ This balance has been arrived at by deducting Es. 744 due from Government on account of khas mahals benefited by the embankment.

PRICES-CURRENT (RETAIL) OF FOOD-GRAINS AND SALT

IN THE

HEAD-QUARTERS STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 15TH DECEMBER 1906.

PRICES-CURRENT (retail) of Food-grains and Salt in the Head-quarters

					WB	BAT.			4	BAI	RLEY.		1	1	RIOB,	co	MMC	m.		Jon (So	WARO	R CHO	LUM are).
Number.		districts.		Present return.	preceding	urb.	Corresponding return	of last year.	Present return.		Next preceding return.	O	of last year.		Present return.	Next preceding	return.	Corresponding return	of last year.		Present return.	Next preceding return	Corresponding return of last year.
	В	ENGAL		s. Ch	.s.	Cb.	s.	Ch.	S. (Oh.	s. Ch	8.	Ch.	s.	Ch	s.	Ch	s.	Ch	S.	Ch.	8. Ch.	s. C
- 1		Burdwan			1									N	8 10 ew		4 ew	13	0		-	•••	•••
	2	B'rbhum	-	7 0	1	0	11	4	-	-			. {	7	old 2	9 7 N	2) lew	IN	iaw	1.		•	-
BURDKAN DIVISIOR.	8	Bankura		11 (1	1 0	12	0		.				9	0 New	8		15	Old Old	11		-	-
NA.W	4	Midnapore		10	1	0 0	8	0					•••		9 0	10	0	14	. 0				
BURE	6	Hooghly		8 1	8	8 8		8 8							7 8	7	8	10	0	,			-
	6	Howrah					1:	2 0	-						8 0	2	12	1	1 8	3			
	7	24-Parganas		10	0 1	0 0	1	0 0				-			9 (1	9 (1	1 1	В		-	
NO	8	Caloutta		10	0	10 C	1	0 (12	14	12	14	12	4	8 14	1	9 1	4	7	0	-	-	
DIVISI	9	Nadia		10	8	11 0	1	4 8	3		18	5		1	8	В	8 1	0 1	2	4			
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	1	9 Darbhanga		. 11	0	11	0	14	4	13	3 1	3 3	17	9	6	0	7	11	15	6			

A. In the subdivisions the retail prices of saltiper rupes are—Katwa 16 seers 8 chitaks; Raniganj 16 seers Kalna 17 seers.

B. At Rampur Hat the retail price of salt is 16 seers.

C. At Vishnupur the retail price of salt is 16 seers per rupes.

D. In the subdivisions the retail prices of salt (panga) per rupes are—Contai 16 seers; Tamluk 16 seers; Ghatal 17 seers 8 chitaks.

E. In the subdivisions the retail prices of salt per rupes are—Serampore 16 seers (Liverpool); Arambagh 16 seers (Karkatch).

F. At Ulubarish the retail price of salt is 16 seers per rupes.

G. In the marts in the interior of the district the retail prices of salt per rupes are—Chetla 16 seers; Barasat 16 seers; Baduria 16 seers (crushed); Mograhat 16 seers; Barrackpore return not received.

H. In the subdivisions the retail prices of salt per rupes are—Kuchta 15 seers (panga); Chuadanga 13 seer (karkatch); Moherpur 16 seers (karkatch); Ranaghat 12 seers (crushed).

BAJ Peni	risetur	CUMB typhom).		(E	MAI	ine	OR	RAC	20
Present return.	Next preceding re-	Corresponding re-	turn of last year.	Present return	は、これに関係を受ける	Next preceding re-	enth.	Corresponding re-	turn of last wasr
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Station Bazars of the districts of Bengul on the 15th Discember 1906.

		PRICES OF 40	MAUNI SEERS.	ER I	PI													/					-
			SALT.						ALT	Si		•	OR PEA	IAN	R (d CAD, us i	R, (BU	r (OR	E	MAI2		
	DISTRICTS	Corresponding return of last year,	Next preceding return.		Present return.		Corresponding return of last year		return, preceding	l	Present return.	. 0	of last year.	1	vext preceding return.		Present return.		Corresponding return of last year.		Next preceding	P.es inf return	
	BENGAL	KB. A P	4. P.	P. 16	Α.	Ra	Ch	. 5.	Ch	s.	Ch	3.	Ch	S.	Ch	s.	Ch	8	Ch	S	s Ch	(h	8.
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6	Howrah	2 4 0			4	2	0	116	0	16	1 100	17	0	9	8	8	12	7					
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^{1.} In the subdivisions the retail prices of salt per rupee are—Jangipur 16 seers; Lalbagh 14 seers; Kandi 15 seers.

J. In the subdivisions the retail prices of salt per rupee are—Jangipur 16 seers 12 chitaks (karkatch); Magura 12 seers (karkatch); Bangaon 16 seers (panga) and Narail 14 seers 3 chitaks (panga).

K. In the subdivisions the retail prices of salt per rupee are—Bard 16 seers; Bihard 14 seers.

L. In the subdivisions the retail prices of salt per rupee are—Jananabad 16, Nawada 16 and Aurangabad 16 seers.

M. In the subdivisions the retail prices of salt per rupee are—Bard 16 seers; Bhabua 14 seers and Sasarar 16 seers.

O. In the subdivisions the retail prices of salt per rupee are—Baxard 16 seers; Gopalganj 15 seers 14 chitaks (panga).

P. At Bettiab the retail price of salt per rupee are—Siman 15 seers; Hajipur 15 seers.

R. In the subdivisions the retail prices of salt per rupee are—Simanti 15 seers; Hajipur 15 seers.

R. In the subdivisions the retail prices of salt per rupee are—Samastipur and Madhubani return not received.

PRICES-CURRENT (retail) of Food-grains and Satt in the Head-quarters

					WHEA	۹.	*		SARLET		Rio	R,	OOMM	on.	Jown (Sor,	AR OR C	HOLUN ulgare)
Number.		DISTRICTS.		Present return.	Next preceding reture.		Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	3	Next preceding return.	Corresponding return	Present return.	Next preceding return.	Corresponding return of last year.
	-		8	Ch	s. c	h.]	S Ch.	s. Ch	S. Ch.	s. Ch	s. c	b.		s. C	h. S. Ch	. S. Ch.	S. CI
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R DIV	22	Purnea		9 0	9	8	18 5		-	1	-Nev	V	New 6 8	Nov 13	0 }		-
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	125	Cuttack	1	1 18	10	8	11 13			-	11	21/2	10 8	14	7		-
CN.	26	Balasore	1	1 12	11	0	18 0			-	9	0	10 0	13	0	-	
DIVIS	27	Angu'		6 0	6	0	9 0	-	-	-	11	8	11 8	13	0		-
ORISSA DIVISION.	28	Pari		9 13	9	13	11 7				10	8	10 8	12	7		
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CHCI	38	Manblu m .		10 0	11	0	11 0	12	0 10	8 13	0,10	0	10	0 15	0		.
	34	Singi bhum		10 0	10	0	13 0				10	0	10	0 13	0	-	

^{*}Return not received.

8. In the subdivisions the retail prices of salt (panga) per rupee are—Jamui 16 seers; Begusarai return no received.

7. In the subdivisions the retail prices of salt per rupee are—Banka 13\frac{3}{2} seers; Madhipura return not received; and Supau. 14 seers.

8. U. In the subdivisions the retail prices of salt per rupee are—Kishanganj 14 seers; Basantrur 14 seers.

9. U. In the subdivisions the retail prices of salt per rupee are—Kurzeong 11 seers and Siliguri 10 seers 8 chitaks.

9. V. In the subdivisions the retail prices of salt per rupee are—Jamtara 13 seers; Pakour report not received, Deoghur 16 seers and Rejmahal and Godda return not received.

Penn	eum)	CUMBI typhoic	H- (Ele	ARUA (DE RAG
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Station Bazars of the districts of Bengal on the 15th December 1906 -concld.

		PRICES OF 40	MAUND O SEERS.	PER						20.26								
			SALT.				LT.	SAI		EA	N PI	(dál ADJA) s ind	, C.	THUR,)R		N-OOR AAIZE a may	
Number.	DISTRICTS,	Corresponding return of last year.	Next preceding return.	Present return.	of last year	Corresponding return	rn.	Next preceding	Present return.	of last year.	Corresponding return	Ė.	Mast monding	Present return.	of last year.	Corresponding return	Next preceding return.	Present return.
tuded.	Bi HAK-ee	Rs. A. P.	P. Rs. A. P.	Rs. A. 1	Ch.	3.	Ch.	. S.	. Ch.	Ch. S	s. (Ch	s.	s. Ch	Ch.	s.	3. Ch.	. CI.
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2:	Purnea.	8 0 0	Panga.	3 0	3 0	13	3 0	13	3 0	0 1	8	8	6	6 8	0	21	10 8	10 8
21	Darjeeling.	3 5 0	03 5 0	8 5	2 0	12	2 0	12	2 0	4 1	6	8		5 8	0	13	12 0	2 0
24	Sonthal Parganas	2 12 0	Panga. 0 2 12 0	2 12	1 0	14	0	14	W	0 1	No.	0) 8	11 0	0	22	14 8	13 8
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	CHOTA N	19 1 0	Panga.		0 0	10		10		0	0	14				10	15 0	
89	Hazaribagh.	10 1 8	Panga		2 8	12	2 8	12		0	8	3 14	10		8	19	15 0	
1 .	Ranchi.	3 1 0	0 3 0 0	8 0	2 13	12	3 0	13	3 0	0 1	6	0	6	6 8	0	20	18 0	8 0
2 > :	Palamau.	1 ,	1		5 3	15	5 8	15	5 8	4 1	11	0	9	9 0	0	27	5 12	4 10
2 3	Manbhum.	2 8 0	Panga. 0 2 10 0	2 10	3 0	13	0	15	3 d	8 1	10	0	8	8 0	0	20	5 0	5 0
34 !	Singhbhum.	3 0 0	Panga.	8 0	3 0	13	0	13	3 0	0 1	12	0	18	8 0				

Published for general information.

X. In the subdivisions the retail prices of salt per rupee are—Kendrapara 16 seers; Jajpur 16.

Y. At Bhadrak the retail price of salt is 16 seers per rupee (panga).

Z. In the marks in the interior of the district the retail prices of salt per rupee are—Saukhpur 11 seers (karkatea; Phulbani 12 seers.

At Khur a the retail price of salt is 18 seers per rupee.

At Bargarh the retail price of salt is 11 seers (Bombay).

c. At Gumla the retail price of salt is 10 seers (panga).

d. !n the subdivisions the retail prices of salt per rupee are—Gobindapur 16 seers (panga); Jhalda 11 seers.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, &

									1																					1	PRI	CE	PE	R	LAU
				Rt	OB (BES	T SO	RT).			(Оом	IMO	N RIC	E (n	nota	cha	ul).	***	,	Vн	TLS	(Tri	ticu	ım a	alivi	um)			BAR	LKY	(<i>A</i>	ord	eum	viile
Number.	MARTS.	- M	Present return.			Next preceding return.			Corresponding return of last year.			Present return.			Next preceding return.			Corresponding return of last year.		1	Present return			Next preceding return.		4	Corresponding return of			Present return.			Next preceding return.		
		R	. A.	P.	Rs	Α.	P.	Re	Α.	P.	Rs.	۸.	P.	Re.	Δ.	P.	Rs.	A.	P.	Rs.	۸,	P.	Rs.	Α.	P.	Rs.	۸.	P.	Ra.	۸.	P.	Ra	Α.	Р.	Rs,
1	Calcutta	 6	6	0	6	8	0	6	4	0	4	4	0	4	4	0	5	8	0	3	12	0	3	12	0	3	8	0	2	14	0	2	.14	0	2
2	Burdwan	 5	14	0	5	12	0	8	8	0	4	10	0	4	13	0	3	0	0										25						20, 38,73
3	Midnaporo	 6	4	0	6	4	0	3	12	0		Nev 7			New 0	0	2	13	0												(3)				
4	Patna	6	0	0	6	0	0	4	0	0	5	в	0	5	3	0	2	8	0	3	5	4	3	5	3	3	9	0	2	15	0	2	15	0	2
Б	Muzaffarpur	 6	10	6	6	10	б	5	0	0	5	0	0	5	0	0	3	5	3	3	10	0	3	10	0	3	5	3	2	15	3	2	15	8	2
6	Bhagalpur		New 4		7	1	0	3	15	0		3		4	New 8	0	2	12	0	3	8	0	3	8	0	2	14	0	3	3	0	3	2	6	1
7	Outtack	 5	8	В	5	5	6	5	0	9	3	9	4	3	13	0	2	12	3	3	4	6	3	13	6	3	3	9							
8	Sambalpur	 4	8	0	4	3	0	4	3	0	3	4	0	3	2	0	2	6	0	3	0	0	3	0	0	3	0	0							1
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CALCUITA,

The 20th December 1906.

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Corresponding return of		Next preceding return.				Present rature.		last year.	Corresponding return of			Next preceding return.		100001	Descent watern.		last year.	Corresponding return of		Next preceding return.			Present return.			last year.	Corresponding return of		Next preceding return.			Present return.	
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undermentioned Marts of Bengal on the 15th December 1906.

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6	1	0	0	0	8	0		-		6	11	6	5 1	1	6	5	0	0	0	5	0	0	5	0	0	5 0	3	0	01	Panga 3 0	0	3 1	0		9. Ranchi.

C. A. OLDHAM,

Director of Agriculture, Bengal-

No

Imports of Principal Articles into the Calcutta Trade Block

				FOOD-GR	AINS				FIBROUS	PRODUCTS	OIL	BEEDS
Whence imported		Rice and pa	ddy	7	1	Gram	Other					W
	Rice	Paddy*	Total (in rice)	Wheat	Mhea	and pulse	food- grains	Total	Jute, raw	Gunny bags†	Linseed	Mustard
HBNGAL	Mds	Mds	Mds	Mas	Mds	Mds	Mds	Mds	Mds	No	Mds	Mds
	958,335 477,142 937,604 27,381 67,594 256	246,334 5,205 64,155 268,051 122,799 50,022 2,711 2,393 4,550 24,000	462,981	1,207 8 786 2,012 52 10,264 10,542 251	87 87 2 573	1,074 12 21,893 15,583 8,288 170,292	851 718 16 1,127 15,094 2,817 896	193,905 1,148,562 577,075 977,208 224,727 110,536	4,853 	120,497 19,075 15,050 84,976 17,583,348 58,510,377 111,283 31,635 58,535 142,835	3,922 2,046 	3,31 3,97 1,20 1,12 23 2,50 68
Total Bengal	3,455,963	797,220	3,954,226	25,122	1,291	297,885	21,519	4,800,043	1,742,419	76,657,611	160,938	13,06
BIHAR			Page 1-1	4 9 9 9					1	Control of the Contro		
Patna Gaya Gaya Saran Danmi aran Musaffarpur Darbhanga Monghyr Shaga pur Purnes Ouths! Parganas Sarfelins Ooch Behar	27,661 18,315 832 816 535 12 1,386 6,152 260 8,405	28 269	7,030 27,661 18,315 833 984 535 12 1,386 6,153 260 8,405 1	2 774 6,874 151 20 549 21,422 6,346 681 17,010	766	232,921 199,767 330,621 6,067 4,049 1,629 4,560 167,783 11,392 15,343 19,389 6	49,443 6,725 2,193 5,959 41,705 19,721 3,927 7,350 40,931 364 11,443 2	289,396 234,927 358,769 13,009 46,753 21,885 9,048 197,950 64,821 16,648 66,247 9	353 80 	4,095 44,135 1,575 14,840 3,325 2,100 2,100 2,870 6,020 123,585 10,080 38,675 840	381,644 84,497 78,737 95,309 121,202 240,055 243,727 123,494 86,052 6,695 6,695 18	24,84 4,27 6,88 11,52 22,97 9,61 32,79 59,90 42,08 8,67 12,31 82(
Total Bihar	71,403	293	71,586	53,829	775	993,527	189,763	1,309,480	686,330	254,240	1,417,832	236,099
ORIBBA		11.0	1 to 1 to 1	- M		12/40		promise in	Committee of the Committee	er ja siin er er ergent		
Balasore	414,959 145,486	52,986 443,454 27,447 1,284 8,326	129,997 674,118 162,640 238,117 49,440	522		3,649 6,036 155 231	47 36	133,646 698,676 162,640 238,319 49,707	8,099 60,208 382	6,265 44,172 4,585 12,845 1,435	1,468	777
Total Orissa	938,877	588,497	1,272,312	522		10,071	83	1,282,988	68,689	60,302	2,567	1,680
OROTA NAGPUR			100000	I state							en de la constante de la const	
fazaribagh	68,800 905 997	14,496 16,749	4,466 339 77,860 216,395 835		259	342 18 264	6	4,808 339 78,132 216,665 835		980 31,955 3,640 11,235 455	1,002 22,072 346 1,945	826 593 218
Total Chota Nagpur	280,367	31,245	299,895		259	619		300,779		48,265	25,365	1,637
Total of the Provinces under the Lieute- nant-Governor of Bengal.		1,362,255	5,198,019	79,473	2,325	1,802,102	211,371	7,193,290	2,497,438	77,029,418	1,606,702	252,428
OTHER PROVINCES					_			- 4				
B and Assam P of Agra and Oudh njab nd and British Balu- chistan,	2,522,759 122,257 30,264 39,:67 25,471	179,425 538 689 8,944	2,634,930 722,693 80,695 89,967 81,061	721 3,218 1,655,817 349,778	467 64 43,835 32,274 408	25,584 52,234 388,764 308,654	6,646 2 275 28,656 19,116	2,668,318 180,384 2,147,767 749,789 31,469	4,963,859 8,189	14,350 986,000 7,315 18,760 1,000	58,116 644,731 672	183,120 857,025 296,255 258
ntrai Provinces and Berar.	143, 62	50,655	175,021	233,091	5	370,018	834	778,969	771	13,125	75,825	4,771
ombay	145,800 52,702 4,61	80,035 336	145,800 102,724 4,891	2,837	150	64,095 1,213	203 174	146,006 167,143 8,441	92	5,470 525	61 12,613	28,248 9,013 75,596
(1906	# 090 C79	1,682,877	9 898 071	0 004 405		0 710 007				200	W 909 7700	1,706,714
LAND : 0741 1905	7,833,873 6,177,187 4,346,325	736,586	8,885,671 6,637,551 4,989,757	2,324,435 4.720,807 9,876.099		2,512 667 3,435,725 3,723,155	259,011	14,071,576 15,088,571 18,834,224	7,465,349 6,669,919 6,795,621	78,076,163 19,434,265 14,859,878	2,393,720 2,339,370 6,723,577	2,064,888

[•] One manual of paddy is equivalent to 25 seers of rice + Including gunny-cloth, 2 yards = 1 bag

Rail, Road, River, Canal and Sea (coastwise) in the six months of April to September 1906

			100			SUGAR	T	OBACCO	
rea, disn	Cotton	Silk, ra	w Coal and	Indige	Refined	Unrefine	Unmanu- factured	Manufacture	Whence imported
Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	1	
3 136	* 38 272 198 712 1,557 15,243 4,191 368 1,064 321	32 32 32 38 5,30 6	5 11,828 17,906 50,266		26 2 3 84 475 74,048 4 112 372	17 14,060 24,499 62,826 5,635	256 	Mds 68 876 148 4,387 3,184 6	Burdwan Birbhum Birbhum Bankurs Midnapore Hooghly 24- Parganas Nadia Murshidabad Jessore Khulna
140	23,962	6,220	39,076,518		75,123	187,318	57,939	8,667	Total Bengal
7 1 2 4,963 170	858 202 35 44 293 1,599 49 1,278 2 52	11		6	1,043	2,363 1,442 5,593 9,477 267 455 728 8	17,585 5 341 3,721 12,734 35 90,139 1,543 2,936 5,181	4,261 5,119 6	Patna Gaya Shahabad Saran Champaran Muzaffarpur Darbhanga Monghyr Bhagsalpur Purnea Sonthal Parganas Da-jeeling Cooch Behar
					1,040	13,611	135,174	9,677	Total Bihar
1	58 220 184 457						1,103		ORISSA Outtack Balasore Pori Sambalpur Mourbhanj State Total Orisea
									Total Offesh
552	36 189		780,430 4,070 36,629,172		=	=	= 4	= ,	CHOYA NAGPUR Hazaribagh Palamau Manbhum Singhbhum Gangpur (Tributary State)
152	225	*****	37,413,672				4		Total Chots Nagpur
		6,238	76,490,190	14	76,166	200,929	194,220	18,344	Total of the Provinces under th Lieutenant-Governor of Bengal
79 189 343 3	16,583 101,078 88,434 36,669	1,634 20	41,590	12	998 32 1,186	1,453 6,172 65	787 141,275 369 8	26 109 1	OTHER PROVINCES AND PLACES, SURVIA B B and Assam J P of Agra and Ondh anjab ind and British Baluchistan
12	103,816					150	5		central Provinces and Berar
98	11,357 8,189 4,097	17			42,836 72,763	-	387 145	1,037	Sombay Sadras Lajputana and Cenval India
147	399,279	7 000	70 591 790			900 Pen -			ort Blair
201	512,619 204,547	7,909 8,870 7,345	76,531,780 71,919,085 63,255,275	26 894 1,830	193,981 167,004 186,744	208,759 302,098 311,405	337,146 386,405 417,813	22.025 1	906 905 GRAND TOTAL

No. II

the Routes by which the Articles enumerated in Table No I were imported

			Food-G	RAINS				ROUS	OILSE	BD8
ROUTES	Rice	Paddy	Wheat	Wheat	Gram and pulse	Other food-grains	Jute,	Gunny- bags*	Linseed	Mustard seed
	Mds	Mds	Mds	Mds	Mds	Mds	Mds	No	Mds	Mos
y boat	1,597,002	106,633	23,276	88	209,902	8,224	1,476,219	71,484,660	95,295	17,758
, river steamer	118,089	10,759	4,284	36	51,844	15,360	1,009,973	210,840	15,735	175,205
(E. I. Railway	933,638	827,733	2,065,754	77,653	1,659,896	222,423	711,805	773,360	2,097,110	1,476,834
E. B. S. Rail- way (includ-	200,898	495	1,522	720	123,741	15,373	8,954,750	2,890,580	103,476	8,766
ing B. O. Kailway)			No. of Contract of				32,467	99,715	215	
AB. Bailway	17	4			010 008	1,009	22,935	135,660	79,758	6,80
BN. Railway	1,696,379	815,993	228,874	155	212,905 165,025		******	1,015	853	
Bombay Rail- ways Howrah-Amta and Howrah	2,448	213		1	25		5,400	20,685	105	·
Sheakhala Light Rail- ways†	manager party pro-		5 S	10 M	Control of the Contro				11.5	
road	475,129	54,549	4		8,603		175,593	2,430,323	698	10
, road	9 910 979	366,498	721	875	86,226	6,886	76,207	29,325	475	21,74
(1906	7 009 079	1,682,877	2,324,435	79,528	2,512,667	269,275	7,465,349	78,076,163		1,706,71
Total 1905	4 940 90E	736,586 1,029,492	4,720,307 9,876,099	55,977 50,800	3,435,725 3,723,155	289,011 194,413	6,669,919 6,795,621	9,434,265		2,064,88
			1			7	Suc	AB	Това	000
ROUTES,	Tea, India			ilk,	Coal and coke	Indigo	Refined	Unrefined	Unmanu-	Manufa

							800	PAR	Това	000
	ROUTES,	Tea, Indian	Cotton,	Silk, raw	Coal and coke	Indigo	Refined	Unrefined	Unmanu- factured	Manufac- tured
		Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds	Mds
By boat		8	17,833	9	24,175		4,667	121,915	47,276	2,788
" river	steamer	604,001	43,439	2,841	58,257		72	1,444	16,820	2,108
	E. I. Railway	1,117	181,954	576	57,246,755	26	2,293	19,902	81,996	6,270
	E. B. S. Railway (including B. C. Railway)	296,708	11,883	4,466	999		382	19,936	226,821	••••
	AB. Railway	79,142	11,111					****	129	4
" rail	BN. Railway	670	8,917		19,155,754		*****	150	228	1,401
	Bombay Rail-		96,583						253	
	ways Howrah-Amta and Howrah- Sheakhala Light Rail- ways†			••••				23		
			3,474		45,840		69,970	45,389	12,170	6,854
" toad		5,011	74,585	17			116,597		1,953	1,030
sea		986,647	399,279	7,909	76,531,780	26	193,981	208,759	337,146	20,26
	1906		512,619	8,870	71,919,085	894	167,004	302,038	386,405	22,02
Tota	1906	1,037,105	204,547	7,345	63,255,275	1,830	186,744	311,405	417,813	20,44

Including gunny-cloth, 2 yards = 1 bag
 † Trade carried by these Railways was not registered previous to April 1805.

No III

Imports of certain Articles into Calcutta by Sea (Foreign and Coastwise) in the six months of April to September 1906.

						COTTON PI	ECE-GOODS	COTTON	YARN		
			The second			European	Indian	European	Indian	Salt	Kerosene oi
rom Foreign Countries-					- 1	Re.	Ra	Mds	Mds	Mds	Mds
United Kingdom	-	-		-	-	8,59,80,128		59,431		3,317,529	201
Other countries	-	-	-	-	-	54,80,564	•••••	3,313		2,507,614	807,934
				Total		9,14,60,692		62,743		5,825,143	808,186
cast wise-										-	
Bombay	**		-		-	1,01,776	27,09,805		57,503	375,990	
Sind and British Baluchis	tam	••	•••	•••		2,532	*****				
Madras	•••	-	-	-		761	4,40,336		593	*****	*****
Other ports in Madras			•••				3,740	7000 Sept. 1700 Sept. 1			
Allepey						·····			78		*****
Pondichery	•••	***	•••	•••		712					
Burma	•••	•••	•			86,492	20,083	Print Millians Tolking	94		1,314,463
Other ports	•••	•	•	•					42		
				Total		1,42,273	31,73,914		58,304	375,993	1,314,459
			ſ	1906		9,16,02,965	81,73,914	62,743	58,504	6,291,133	9,122,638
	T	otal	}	1905		9,71,86,304	\$1,86,101	73,773	69,045	5,548,132	2,129,558
			l	1904		8,58,16,023	29,25,477	46,959	77,498	7,024,326	2,616,329

No IV

Exports of Principal Articles from Calcutta by Sea (Coastwise and to Foreign countries) in the six months of April to September 1906

	Rice	Paddy	Total (in rice)	Wheat	Wheat flour	Gram and pulse	Other food- grains	Total	Jute, raw		nny-
Doastroise-	Mds	Mde	Mds	Mds	Mds	Mds	Mds	Mds	Mde		No
Bombay	54,241		84,241	119		584	136	55,080		20 8,6	20,150
Bind and British	100				Ave. To			799		3.4	13,500
Baluchistan	799		799	******					*****		03,200
Madras	630		630	424	11,950	91,089	7,405	111,408			00,40
Other ports in Madras	139,474	905	140,040		7,390	20,143		167,573			23,65
Katiywar					7777						
Pondichery					1,925	1,035		2,960			93,20
Goa										A. C. S. S.	
Allepey	3,522		3,522					3,522		S. Signal	13,50
Burma	18,667		18,667	1,322	146,159	121,335	10,488	297,971	,	225 11,3	387,81
Other Indian				044	7 440	0 900	20	25,627		1	106,94
ports	9,618		9,618	244	7,446	8,299		665,030	-		761,96
Total	226,951	905	227,517	2,109	174,670	242,485	18,049	4		240 20,	701,86
To Foreign coun-											
tries-	225,006		225,008	129,474		185,549	99	540,130	1,861,	502 26,	406,83
United Kingdom	2,422,374	13	2,422,382	28,508	34,053	150,552	29,295	2,664,790	2,542,	147 272,	502,8
Other countries	-	17	2,647,390	157,982	34,053	336,101	29,394	3,204,92	-	_	909,6
Total	2,647,380	- 17	2,091,000	101,002			-				
C1906	2,874,331	922	2,874,907	160,091	2(8,923	578,586	47,443	3,869,950	4,403,	895 324,	671,6
Total 1905	5,627,047	44,980	5,655,158	2,544,465	240,183	1,549,977	93,537	10,083,32	0 4,154,	692 311,	062,6
1904	3,929,208	3,347	3,931,299	7,251,373	261,015	2,058,249	63,927	13,565,86	3 3,551,	059 279,	732,0
	Linseed	Mustard	Tea,	Cotton,	Silk, raw	Coal and	Indigo	Sue		TOBA Un-	
	Linseed	Mustard soed .	Tea, Indian	Cotton,	Silk, raw	Coal and coke	Indigo	Re- fined	Un- refined		Man
		seed .	Indian	TAW		coke		Re- fined	Un- refined	Un- manu- fac- tured	Man fac ture
Coastwise -	Linseed		Indian Mds	raw Mds	Mds	coke Mds	Mds	Re- fined	Un- refined	Un- manu- fac- tured	Man fac ture
Coastwiss - Bombay		seed .	Indian	TAW		coke		Re- fined	Un- refined	Un- manu- fac- tured	Man fac ture
Bombay Sind and British	Mds	Mds	Indian Mds	raw Mds	Mds	coke Mds	Mds	Re- fined	Un- refined	Un- manu- fac- tured	Man fac ture
Bombay Sind and British Baluchistan	Mds	Mds	Indisn Mds 14,435	Mds 661	Mds 25	Mds 15,388,042	Mds 24	Refined Mds 5,450	Un- refined Mds.	Un- manu- fac- tured	Man factured
Bombay Sind and British Baluchistan Madras	Mds	Mds	Indian Mds 14,435	Mds 661	Mds 25	Mds 15,388,042 7,082,624	Mds 24	Refined Mds 5,450	Un- refined Mds.	Un- manu- fac- tured Mds	Man fac ture Md
Bombay Sind and British Baluchistan	Mds	Mds	Indisn Mds 14,435	Mds 661	Mds 25	Mda 15,388,042 7,082,624 2,393,05: 1,642,761	Mds 24	Refined Mds 5,450	Un- refined Mds.	Un- manu- fac- tured Mds	Man fac ture
Bombay Sind and British Baluchistan Madras Other ports in	Mds	Mds	Mds 14,425 570 742	Mds 661	Mds 25	Mds 15,388,042 7,082,624 2,393,05:	Mds 24	Re-fined Mds 5,450 1,264	Un- refined Mds.	Un- manu- fac- tured Mds	Man factured
Bombay Sind and British Baluchistan Madras Other ports in Madras	Mds	Mds	Mds 14,485 570 742 246	Mds 661	Mds 25	Mda 15,388,042 7,082,624 2,393,05: 1,642,761	Mds 24	Re- fined Mds 5,450 1,264	Un- refined Mds. 	Un- manu- fac- tured Mds	Man fac ture
Bombay Sind and British Baluchistan Madras Other ports in Madras Kattywar	Mds	Mds	Mds 14,435 570 742 246 5	Mds 661	Mds 25	Mds 15,388,042 7,082,624 2,393,05: 1,642,761 147,136	Mds 24	Re-fined Mds 5,450 1,264 13	Un-refined Mds	Un-manu- fac- tured Mds	Man fac ture
Bombay Sind and British Baluchistan Madras Other ports in Madras Kattywar Pondichery	Mds	Mds	Mds 14,435 570 742 246 8	Mds 661	Mda 25	Mds 15,388,042 7,082,624 2,393,05; 1,642,761 147,136 103,771	Mds 24	Re-fined Mds 5,450 1,264 13	Un-refined Mds 11	Un- manu- fac- tured Mds	Man fac ture
Bombay Sind and British Baluchistan Madras Other ports in Madras Kattywar Pondichery Goa	Mds	Mds	Mds 14,425 570 742 246 8	Mds 661	Mds 25	Mds 15,388,042 7,082,624 2,393,05; 1,642,761 147,136 103,771 174,957	Mds 24	Mds 5,450 1,264 13	Mds.	Un- manu- fac- tured Mds	Man fac ture
Bombay Sind and British Baluchistan Madras Other ports in Madras Kattywar Fondichery Goa Allepey Burma Other Indian	Mds	Mds	Mds 14,435 570 742 246 8 3,771	Mds 661	Mds 25	Mds 15,388,042 7,082,624 2,393,05: 1,842,761 147,136 103,771 174,957 82	Mds 24	Re-fined Mds 5,450 1,264 13	Mds.	Un- manu- fac- tured Mds	Man fac ture
Bombay Sind and British Baluchistan Madras Other ports in Madras Kattywar Fondichery Goa Allepey Burma Other Indian ports	Mds	Mds	Mds 14,425 570 742 246 8 3,771	Mds 661	Mds 25	Mds 15,388,042 7,082,624 2,393,05: 1,642,761 147,136 103,771 174,957 82 5,733,246	Mds 24	Re-fined Mds 5,450 1,264 13 7,744	Un-refined Mds 11 7,684	Un- manu- fac- tured Mds 1,077 65,431	Man fac ture
Bombay Sind and British Baluchistan Madras Other ports in Madras Kattywar Pondichery Goa Allepey Burma Other Indian	Mds	Mds	Mds 14,435 570 742 246 8 3,771	Mds 661	Mds 25	Mds 15,388,042 7,082,624 2,393,05: 1,642,761 147,136 103,771 174,957 82 5,733,246 140,219	Mds 24	Re-fined Mds 5,450 1,264 13 7,744	Un-refined Mds	Un- manu- fac- tured Mds 1,077 65,431 3,235	Man fac ture
Bombay Sind and British Baluchistan Madras Other ports in Madras Kattywar Fondichery Goa Allepey Burma Other Indian ports	Mds	Mds	Mds 14,425 570 742 246 8 3,771	Mds 661 620 8	Mds 25	Mds 15,388,042 7,082,624 2,393,05: 1,642,761 147,136 103,771 174,957 82 5,733,246 140,219	Mds 24	Re-fined Mds 5,450 1,264 13 7,744	Un-refined Mds	Un- manu- fac- tured Mds 1,077 65,431 3,235 69,743	Man fac ture
Bombay Sind and British Baluchistan Madras Other ports in Madras Kattywar Fondichery Goa Allepey Burma Other Indian ports Iotal To Foreign coun	Mds	8,999 8,999	Mds 14,425 570 742 246 8 3,771	Mds 661 620 8 1,289	Mds 25	Mds 15,388,042 7,082,624 2,393,05: 1,642,761 147,136 103,771 174,957 82 5,733,246 140,219	Mds 24	Refined Mds 5,450 1,264 13 7,744 13,825 28,296	Un-refined Mds	Un- manu- fac- tured Mds 1,077 65,431 3,235	Man fac ture Md S S 1,:
Bombay Sind and British Baluchistan Madras Other ports in Madras Kattywar Pondichery Goa Allepey Burma Other Indian ports To Foreign count tries— United Kingdon	Mds	8,999 8,999 8	Mds 14,485 570 742 246 8 3,771 2 19,769	Mds 661 620 8 1,289	Mds 25	Mds 15,388,042 7,082,624 2,393,05: 1,842,781 147,136 103,771 174,957 82 5,733,246 140,219 33,005,909	Mds 24	Refined Mds 5,450 1,264 13 7,744 13,825 28,296	Un-refined Mds 11 7,684 49 7,744	Un-manu- manu- man	Man fac ture
Bombay Sind and British Baluchistan Madras Other ports in Madras Kattywar Pondichery Goa Allepey Burma Other Indian ports Iotal To Foreign countines United Kingdon O .ner countries	Mds	8,999 8,999 8,999	Mds 14,435 570 742 246 8 3,771 2 19,769	Mds 661 620 8 1,289 14,716 252,109	Mds 25 74 79	Mda 15,388,042 7,082,624 2,393,05: 1,642,781 147,136 103,771 174,957 82 5,733,246 140,219 33,005,909	Mds 24 54 788 2,718	Refined Mds 5,450 1,264 13 7,744 13,825 28,296	Un-refined Mds 11 7,684 49 7,744	Un-manu-lac-tured Mds	Man fac ture
Bombay Sind and British Baluchistan Madras Other ports in Madras Kattywar Pondichery Goa Allepey Burma Other Indian ports To Foreign count tries— United Kingdon	Mds	8,999 8,999 8 9,007 70,769 87,616 158,385	Mds 14,435 570 742 246 8 3,771 2 19,769 643,186 240,032 883,218	Mds 661 620 8 1,289 14,716 252,109 266,8≥5	Mds 25 74 79 1,700 6,328 8,028	Mds 15,388,042 7,082,624 2,393,05: 1,642,781 147,136 103,771 174,957 82 5,733,246 140,219 33,005,909	Mds 24	Re-fined Mds 5,450 1,264 13 7,744 13,825 28,296 128 5,869 5,997	Un-refined Mds 11 7,684 49 7,744	Un- manu- fac- tured Mds 1,077 65,431 3,235 69,743 29 17,956	Man fac ture
Bombay Sind and British Baluchistan Madras Other ports in Madras Kattywar Fondichery Goa Allepey Burma Other Indian ports Iotal To Foreign countries Total Total [1206	Mds	8,999	Mds 14,435 570 742 246 5 3,771 2 19,769 643,186 240,032 883,218	Mds 661 620 8 1,289 14,716 252,109 266,825 268,114	Mds 25	Mda 15,388,042 7,082,624 2,393,05: 1,842,781 147,136 103,771 174,957 82 5,733,246 140,219 33,005,909	Mds 24	Re-fined Mds 5,450 1,254 13 7,744 13,825 28,296 128 5,869 5,997 34,293	Un-refined Mds 11 7,684 49 7,744	Un-manu- manu- nac- tured Mds 1,077 65,431 3,235 69,743 299 17,927 17,956 87,699	Man fac ture Md S 1,1,2,1
Bombay Sind and British Baluchistan Madras Other ports in Madras Kattywar Pondichery Goa Allepey Burma Other Indian ports To Foreign countries Total Total 10206	Mds	8,999	Mds 14,485 570 742 246 5 3,771 2 19,769 643,186 240,032 853,218 902,987 895,555	620 8 1,289 14,716 252,109 266,825 268,114	Mds 25 74 79 1,700 6,328 8,028	Mds 15,388,042 7,082,624 2,393,05: 1,642,781 147,136 103,771 174,957 82 5,733,246 140,219 33,005,909	798 2,718 3,516 7,297	Re-fined Mds 5,450 1,264 13 7,744 13,825 25,296 128 5,869 5,997 34,293 28,680	Un-refined Mds 11 7,684 49 7,744	Un-manu-lac-tured Mds	Man fac ture Md 3 1,:

No V

Exports of certain Articles from the Calcutta Trade Block by Rail, Road, River, Canal and Sea (coastwise) in the six months of April to September 1906

					COTTON PI	BCB-GOODS*	COTTON	YARN	0.11	KEROSE	ME OIL	Gunny-
					European	Indian	European	Indian	Salt	From Calcutta	From Budge- Budget	bags‡
	Bune	AL			Rs	Rs	Mds	Mds	Mds	Mds	Mds	
Burdwan Birbhum Bankura Midnapore	:	:::	::	=	14,57,323 10,98,578 3,35,467 15,99,185	1,03,232 26,142 4,132 2,12,755	1,989 594 4,802	9,291 8,895 5,260 7,138	276,482 99,583 42,863 271,892	8,307 50 5 742	47,360	No 448,32 242,76 162,89 361,66
Hooghly 34-Parganas Calcutta	::	=	=======================================	:::	10,38,552 13,89,673 19,72,628 8,48,347	2,91,896 2,82,904 39,028 56,932	2,989 2,183 6,656 1,119	329 331 2,945 1,088	155,036 115,118 158,648 80,102	25,557 70,658 5,185	10,921 21,323 390,545 62,207	178,99 105,16
Murshidabad Jessore Khulna	Ξ	Ξ	Ξ	Ξ	5,63,635 4,21,345	1,96,256 1,29,469	3,856 700	1,727	97,405 71,864	1,583 17,049 25,545	22,134 17,088 5,015	56,54 20,57 6,09
Total	Ben	gal			1,07,24,788	13,42,746	24,888	37,090	1,366,993	154,676	591,337	1,734,18
	Віна				15 49 400	19.054						
Gays Gays Shahabad Saran Champaran Muzaffarpur	=======================================	-			15,43,480 15,75,632 16,31,823 17,68,354 22,87,589 17,71,718	13,914 11,722 8,867 28,603 18,812 17,198	2,694 912 236 685 199 91	4,731 9,575 2,913 1,295 1,098 1,527	183,931 120,694 95,116 132,120 139,085 179,834	184 70 118 66 147 218	86,938 27,946 21,073 15,510 25,876 41,800	767,32 288,22 284,23 150,88 153,16 198,83
Darbhanga Monghyr Bhagalpur Purnea Sonthal Parge		:::	::		20,51,478 10,61,035 17,63,388 18,55,224 10,33,309	11,061 6,426 45,775 10,876 4,172	71 503 632 366 1,177	4,395 5,289 3,583 5,088 6,431	177,740 120,430 158,224 196,960 126,261	126 313 132 1,592 115	45,708 35,785 36,068 39,748 51,365	223,51 332,811 281,43; 72,820 121,138
Darjeeling Dooch Behar		=	=	:	6,93,372 2,68,711	26,915 2,487	121	3,192 184	41,879 17,029	212 59	13,761 536	26,425 5,390
Total	Biha	r			1,93,05,113	2,06,828	7,687	49,301	1,639,309	3,352	442,114	2,906,191
	ORIBB								- 10		14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Cuttack Balasore Puri Bambalpur	::		:	:::	3,75,809 3,15,558 62,092 1,64,812 44,708	19,135 4,106 1,233 2,046	1,628	10,855 23,046 78 889	6,152 197,369 2 11,799	80 79 163 97	888 11,712 272	157,005 420,230 58,835 181,370
Mourbhanj St	ate		•••					34	7,177	13		13,335
Total	Orisi	16.	•••		9,62,979	26,520	1,626	34,397	222,499	432	12,872	830,776
Снот	ra Na	GPGI				•						
Hazaribagh Palamau Manbhum Singhbhum Gangpur (Trd	outer;	Stat	 e)		4,16,638 3,21,756 10,98,918 1,54,876 46,775	5,310 4,655 16,820 2,147	3 2 124	2,095 827 11,584 651 44	50,198 35,844 157,315 50,660 16,370	110 2 1,439 86 65	8,734 3,058 16,869 39	3,990 16,900 117,700 179,300 5,420
Total	Ohote	Nag	pur		20,38,963	28,932	129	14,701	\$10,387	1,702	28,711	823,330
Total Exports under the I of Bengal.	s to Lieute	the nant-	Provi Gover	nces	3,30,31,788	16,05,026	34,330	135,489	3,539,188	160,162	1,075,034	5,794,478
OTHER PROV	VINCE	8 AN	D PLA	CES							901	11,387,816
Burma B B and Assar U P of Agra at Panjab Sind and Briti Central Provi	nd Ou	luchi	stan	111111	4,76,706 2,00,83,466 1,96,64,895 41,68,998 14,027 6,55,924	69,151 6,32,109 2,20,688 91,511 1,586 15,808	3,498 62,782 8,932 3,481 30 100	24,872 14,469 2,591 169 25 755	1,847,761 234,517 44 2,797	63,614 3,315 234	321 596,169 408,138 17,733	796,059 2,193,415 2,687,195 3,442,585 441,875
Bombay Madras Rajputana and Nizam's Territ Mysore	d Cen	-	***		1,03,259 6,15,665 5,35,649 29,005	19,112 3,688 5,879 913 51	32 36 327	7,988 13 181 30		108	5,922 6,598	10,817,240 2,411,124 71,400 58,940 2,940 13,500
Aflepey Pondichery Port Blair	=	=			49,905	320	2	587			191	93,200
GRAND TO		}	1906		7,94,29,287 8,08,05,596 7,35,05,912	26,65,842 15,09,767 5,96,496	1,13,550 1,21,705 1,15,687	187,196 176,189 159,568	5,624,361 5,578,817 5,826,952	228,024 203,606 292,891	2,121,942 2,031,457 2,654,060	40,211,761 47,040,981 54,067,625

No VI

Stalement of the Routes by which the Articles enumerated in Table No V were exported from the Calcutta Trade Block in the six months of April to September 1906

							COTTON P	IECE-GOODS*	Cotton	YARE		KRROSENB OIL		
			The Cart				European	Indian	European	Indian	Salt	From Calcutta	From Budge- Budge	
		Holia,					Rs	Ra	Mds	Mds	Mds	Mds	Mda	1
By boat			***		***	***	8,30,600	2,77,900	3,823		846,773	110,505	8,183	
. river	steamor		•••				1,08,39,027	2,18,318	51,705	2,201	1,055,302	10,835	481,781	
	(E I Railway	•••			•••		4,36,83,789	5,89,881	15,520	70,708	2,009,161	15,230	953,124	
	E B B Kailway (in	clud	ing B	O Ra	ilway)		1,52,90,995	8,29,257	24,149	19,158	1,021,931	19,087	645,523	F
	A-B Railway				•••		13,52,582	1,88,515	6,803	3,786	72,713	1,353	1,581	
, rail	B-N Railway			4			29,18,185	52,650	45	46,392	413,294	1,398	17,063	17
	N.W Railway		***	***		***	4,92,227	1,574	1,733	1		152		
	Bombay Railways				***		12,26,031	18,028	349	3,235		30	20	13
	Howrah-Amta Light Railways	and	Но	wrah-	Sheakl	nala	4,07,117		1,299		7,655	989	•••••	
, road		***	***				14,01,068	4,03,653	2,667	3	44,698	68,445	2,430	H
ps 800.			-		•••		9,67,666	86,068	5,464	61,713	123,634		12,237	25
							-					(K)		H
				C	1906		7,94,29,287	26,65,843	113,550	1,87,196	5,624,361	228,024	2,121,942	40
		To	tal		905		8,08,05,596	15,09,767	121,705	1,76,139	6,578,817	203,606	2,031,457	47
				1	904		7,35,05,912	5,96,496	115,687	1,59,568	5,326,952	292,891	2,654,060	84

The value rates are fixed quarterly and the monthly valuation is made at the value rates of the preceding quarter t Including gunny-cloth, 2 yards = 1 bag Trade carried by these railways was not registered previous to April 1905

F. NORL-PATON, Director-General of Commercial Intellige

T. W. RICHARDSON, Offg. Secretary to the Government of Ben

December 22, 1906.

Weekly Return of Traffic Receipts on Indian Railways.

ASSAM-BENGAL BAILWAY.

Approximate Return of traffic for the week ended 8th December 1906 on 768 miles open for all descriptions of traffic and an additional 3 miles for goods traffic only.

	COACHIB	G TRAFFIC.		FRIC.	Other earnings (estimated),	Total earnings.	TRAFFIC TRAIS-MILES RUS.		
	No. of passengers.	Coaching receipts.	Weight carried.	Receipts.	including steam-boat.	Total car bings,	Coaching:	Merchan- dise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
for iraffic for the week Or fer mile of railway For previous 22 weeks of half-	54,473 70-93	36,250 0 0 47 20	2,90,410 0 376*67	39,706 0 0 51 50	5,618 0 0 7.29	81,574 0 0 105°99	14,114 18°38	16,953 21.99	31,067 40°8'
year	1,065,055	6,54,840 0 0	87,63,228 0	12,18,495 0 0	1,41,033 0 0	20,14,368 0 0	203,546	422,110	685,656
Total for 23 weeks*	1,120,528	6,91,090 0 0	90,53,638 0	12,58,201 0 0	1,46,651 0 0	20,95,942 0 0	277,660	439,063	716,723
Total for corresponding week of previous year	47,579 64-56 929,624	30,403 0 0 41°25 5,94,429 0 0	2,18,134 0 294.78 61,22,111 0	\$4,016 0 0 45:97 9,56,021 0 0	4,392 0 0 5.94 1,24,382 0 0	68,811 0 0 93'16 16,74,832 0 0	10,343 14'03 240,235	15,021 20°80 418,085	25,364 34*3; 658,340

Includes Noakhali Railway earnings Rs. 35,894 and train-mileage 19,642.

FINANCIAL YEAR.

Approximate Statement of Gross Receipts of the Assum-Benyal Railway.

BRCHIPTS FOR WERK ENDING STH DECEMBER 1906. RECEIPTS FOR WERK ENDING				TOTAL RECEIPTS FROM 1ST APRIL 1906 TO 8TH DECEMBER 1906.			TOTAL RECEIPTS FROM 18T APRIL 1905 TO 9TH DECEMBER 1905.			Total	Total		
Mean- mileage worked.	Receipts.	r'er mile worked.	Mean mileage worked.	Receipts.		Mean mileage worked.		Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Increuse in 1906.	dscrease in 1906.
771	Ra. 61,574	Rs. 105'99	740	Rs. 68,811	Rs. 93'16	771	Rs. 30,27,775		740	Rs. 25,75,810	-	Rs. 6,51,965	

BENGAL AND NORTH-WESTERN RAILWAY.

Approximate Keturn of Traffic for the week ending 8th December 1906 on 1,548 miles open.

	Солснія	G TRAPPIC.	M RECHANDISE TRA	PPIC.	Other earnings (estimated).	Total	TRAFFIC TRAIN-MILES HUR.			
	No. of passengers.	Receipts.	Weight	Receipts.	including steam-boat.	earnings.	Coaching.	Merchan- dise.	Total.	
lotal traffic for the week on 1,548 miles open to per mile of railway	266,300 172.03	Rs. (a) 1,19,480 77*18	M Ds. 10,24,670 661'93	Rs. (b) 1,63,440 105.58	Rs. (c) 22,530 14*55	8,05,450 197*82	49,258	(d) 48,884		
or previous 23 weeks of half-	(6,287,662	25,21,040	1,88,11,828	24,04,636	4,21,773	53,47,449	3,082,841	837,185	1,920,026	
To al for 23 weeks	6,453,962	26,40,530	1,98,36,493	25,68,076	4,44,303	56,52,899	1,132,099	886,069	2,018,168	
COMPARISON. Ital for corresponding week of previous year on 1,467 inities spen ar mile of corresponding week of previous year. Ital to corresponding date of Revious year	.252,508 172'13 5,963,613	1,20,608 82:22 24,41,125	8,56,373 583-76 1,74,27,715	1,05,112 71°65 20,35,463	16,462 11°22 4,02,964	2,42,182 165*09 48,79,553	44,760 1,079,823	(f) 73,169	81,927 1,859,385	
unings per Coaching, Goods and Total tran-mile respectively farms the week Ditto for corresponding week of previous year		2·43 2·69		3·34 2·83	23	3.11				

⁽a) Increase in number with decrease in amount is due to shorter ead traffic.
(b) Increase chi fly under foreign in ward, grain for Bengal.
(c) Increase principally under steam-boat.
(d) Includes 3,510 miles of ballast trains.
(e) Ditto andied figures up to week ending 27th October 1906.
(f) Ditto 5,302 miles of ballast trains.

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APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, JULY 4, 1906.

NOTICES TO MARINERS.

THE following Notices are published for general information.

CALCUTTA, the 3rd July 1906.

W. A. Inglis, Secretary, Marine Department.

EASTERN ARCHIPELAGO-MALACCA STRAIT-PULO PENANG.

Pulo Rimau light-Temporary alteration.

No. 241 (first publication).—With reference to Notice to Mariners No. 84, dated 3rd March 1905, issued by this office, the British Admiralty has given further notice (No. 548 of 1906) that further information, dated 9th April 1906, has been received from the Harbour Master at Penang that Pulo Riman light (red occulting) will, in consequence of an accident, temporarily show white instead of red from the bearing of N. 59° E., through east, to 8. 74° E.

Approximate position, lat. 5° 14′ N., long. 100° 16½′ E.

(Variation 2º Easterly in 1906.)

This Notice temporarily affects the following Admiralty Charts: - Acheh head to Tyingkok bay, No. 2760; Butang group to Pulo Berhala, No. 793; Penang harbour, No. 1366; Malacca strait, No. 1355; also, List of Lights, Part VI, 1906, No. 408; and China Sea Directory, Vol. I, 1896, page 147.

AUSTRALIA SOUTH-PORT ADELAIDE RIVER.

Light beacons under construction.

No. 242 (first publication).—The British Admiralty has given Notice (No. 552 of 1906) that, in connection with the erection of light beacons abreast beacons Nos. 3 to 9 on the north and east sides of the channel, Port Adelaide river, a barge exhibiting an anchor light at night will be moored in the stream during the progress of the work, which will be commenced from No. 9 beacon. A green fixed light will be exhibited from each beacon when completed.

Approximate position, No. 9 beacon, lat. 3±° 47½′ S., long. 138° 31′ E.

Further notice will be given when these beacons are completed.

This Notice affects the following Admirally Chart:—Port Adelaide, No. 1750; also, List of Lights, Part VI, 1906, page 206; and Australia Directory, Vol. I, 1897, page 332.

AUSTRALIA, SOUTH-GULF OF ST. VINCENT.

Port Adelaide river—Extra Beacons placed—Amended Sailing Directions.

No. 243 (first publication).—With reference to Notice to Mariners No. 62, dated 10th February 1906, issued by this office, the Secretary, Marine Board, Port Adelaide, has given further notice (No. 11 of 1906) that eight extra beacons have been placed on the north and east side of the cutting. The beacons are painted black and the lanterns green, from which a green light showing towards the cutting is exhibited; a white light is also exhibited from

the back of each lantern showing towards the shore.

All the green light beacons are numbered from the first or seaward beacon with the letter "G" added as follows:—No. 0G, being outside beacon; No. 1G, near the reflecting beacon; No. 2G, opposite the old boat channel. This light indicates the turning point from No. 2 (red) lead towards No. 3. All the others, that is, Nos. 3G to 9G, both inclusive, are placed opposite the corresponding numbers of the white light beacons on the other side of

the cutting.

All the single light beacons are placed about 15 feet back from the cutting, and painted red to starboard and black to port. The lights are white to starboard and green to port from

The red light on the pile beacon south of No. 3 being no longer required will, on and

after the 1st June 1906, be discontinued.

In consequence of the above alterations the sailing directions have been amended to read as follows :-

Sailing Directions.

By night.—In approaching the anchorage, vessels of deep draught should not bring-the white light on the old structure to bear north of N. E. by E. in order to avoid the four-fathom patch, which bears N. W. half N. from the light on Wonga Shoal; then get No. 1 lead (which consists of two red lights vertical 10 feet apart, and two white lights vertical 11 feet of inches evert) in line; been these in line passing between the consists of the second transfer o 9 inches apart) in line; keep these in line passing between the occulting light on the red buoy and the outer green light on the north bank, also between the other green lights on the

north bank and the white lights on the revetment mound.

Steer on the same line until the two red lights of No. 2 lead are coming on; then steer with them in line until abreast of No. 2G beacon; then direct the course to pass between No. 3 and No. 3G beacons; and so on from beacon to beacon round the point until No. 9 is reached. From a safe distance off No. 9 the lights of No. 10 lead will be seen; keep them in line until the red light is about a quarter of a point open to the right of the white light reached. From a safe distance off No. 9 the lights of No. 10 lead will be seen; keep them in line until the red light is about a quarter of a point open to the right of the white light of No. 11 lead; then gradually alter the course to bring the lights of No. 11 lead in line; keep them in line (a sharp look out being kept for the mooring buoys on the starboard hand) until the lights of No. 12 lead are seen coming into line; proceed as before by altering the course before the lights are on with each other. The same applies in the change from No. 12 to No. 13 lead. When the lights on the wharves are seen opening out off Luff Point, alter the course so as to round the point at a safe distance, and then up the centre of the changed the course so as to round the point at a safe distance, and then up the centre of the channel, looking out for the mooring buoys on the starboard hand.

In going outwards the directions are just the opposite to those given for those coming inwards; but in such case, in changing from one lead to another, the course should be gradually altered when abreast of the low (red) beacon of each lead, excepting No. 2 lead. In this case, when abreast of No. 3 beacon, gradually alter the course to a safe distance off No. 2G until the two red lights of No. 2 lead are in line, then proceed outwards with

No. 2 lead in line.

By day.—The directions by day are the same as by night, merely substituting the beacons for the lights.

This affects Admiralty Charts 2389A and B, 1750 and 1752.

During the progress of the work at the Light's Passage Harbour Works, masters of vessels exempt from pilotage may, if they so desire, avail themselves of the services of a pilot to assist them in passing such works, either in or out, at one-half the usual rates.

If the usual exemption flag is not hoisted, it will be taken as a signal that a pilot is

required. At night if a pilot is required the usual signal for a pilot should be shown.

N.B.—Owing to the nature of the work in progress, this notice may require to be amended from time to time, and therefore should be treated as tentative only.

INDIA, WEST-BOMBAY COAST.

Bombay harbour-Ballard pier-New extension works marked by buoy.

No. 244 (first publication).—The Bombay Government has given notice (No. 65 of 1906) that several blocks of concrete have been washed off the works at the East end of the Ballard Pier Extension somewhat obstructing the passage to the old steps.

2. A small black painted conical Buoy will be moored to mark the end of this obstruction which has a depth on it of 12 feet at Low Water,

Vessels approaching this draught should not pass between the Buoy and end of the new Pier Extension works.

This Notice affects Admiralty Chart:—Port of Bombay, No. 655; also West Coast of Hindustan Pilot, 4th edition, 1898, page 201; and Supplement, 1903, page 15.

INDIA, WEST-BOMBAY (GOA) COAST.

Din lights-Their non-exhibition dureing certain months.

No. 245 (first publication).—The following Notice to Mariners issued by the Bombay Government (No. 66 of 1906) is republished:

Information, dated 17th May 1906, has been received from the Captain of the Port that the following lights at Diu, viz., the Red fixed light of the Forte de Mar and the White fixed light on the Castle Culwark foundation, will not be exhibited during the months of June,

This Notice affects the following Admiralty Charts:—Gulf of Kutch to Viziadrug (plan Diu harbour), No. 2736; Dwarka Point to Diu Head, No. 1420; and Diu Head to Goapnath Point, No. 50; and West Coast of Hindustan Pilot, fourth edition, 1898, page 258, and Supplement 1903, page 16; also Admiralty Light List, Part VI, 1906, Nos. 217 and 218, and List of Light-houses and Light-vessels in British India, Nos. 217 and 218.

The 28th June 1906.

BAY OF BENGAL.

Caution - Report of floating wreckage.

No. 219 (second publication).—A telegraphic communication has been received from Colombo, dated S.S. Begonia, 12th June, stating that a large amount of floating wreckage setting eastward was passed in latitude 14° N., longitude 85° E. Mariners are hereby

The 19th June 1906.

NEW ZEALAND-South ISLAND.

Taiaroa head-Otago harbour entrance-Fog signal altered.

No. 220 (second publication).—The British Admiralty has given notice (No. 503 of 1906) that on 20th April 1906, the fog gong on Taiaroa head, Otago harbour entrance, would be replaced by a fog explosive, which will give during thick or foggy weather one report every

Approximate position, lat. 45° 47′ S., long. 170° 45′ E.

This Notice affects the following Admiralty Charts:—Otago to Mataura river No. 2533; Ninety Miles beach to Otago, No. 2532; Otago harbour, No. 2411: Also, List of Lights, Part VI, 1906, No. 1677; New Zealand Pilot, 1901, page 293; and Supplement, 1903,

PACIFIC OCEAN, SOUTH-SOCIETY ISLANDS.

Buoyage unreliable.

No. 221 (second publication).—The British Admiralty has given notice (No. 504 of 1906) that owing to the recent hurricane the buoyage of those islands cannot be depended on.

Approximate position, lat. 17° 0' S., long. 150° 0' W.

No. 767: Also Pacific Islands, vol. III, 1900, page 47; and Supplement 1903, page 4.

EASTERN ARCHIPELAGO-SUMATRA, WEST COAST-KONINGINNE BAY.

Emma haven light—White sector abolished.

No. 222 (second publication).—With reference to Notice to Mariners No. 111, dated 26th March 1906, issued by this office, the British Admiralty has given further notice (No. 505 of 1906) that the white sector in the light (fixed) exhibited from the breakwater head, Emma haven, has been abolished, the light now shows red from the bearing of North to N. 84° E.

Approximate position, lat. 1° 0′ S., long. 100° 22½′ E.

(Variation 2° Easterly in 1906.)

This Notice affects the following Admiralty Charts: - Ujong Masang to Ujong Indrapura, No. 709; Koninginne bay, No. 212; Also List of Lights, Part VI, 1906, No. 466; China Sea Directory, vol. I, 1896, page 302; and Supplement, 1899, page 21.

CEYLON, WEST COAST-COLOMBO HARBOUR APPROACH.

Nilkete rocks-Wreck of the S. S. "Kazan."

No. 223 (second publication). - The British Admiralty has given notice (No. 508 of 1906) that the wreck of the S.S. Kuzan, which ran on the Nilkete rocks in the approach to Colombo harbour, forms a prominent object from seaward, and as the vessel is unlikely to disappear quickly she will be useful as a navigational aid for some time.

Approximate position, lat. 6° 41' N., long. 79° 524' E.

This Notice affects the following Admiralty Chart :- Ceylon, No. 813: Also Bay of Bengal Pilot, 1901, page 77; and Bay of Bengal Filot, 1898, page 93.

PACIFIC OCEAN-New Hebrides Group.

Malekula island-Rock reported off the south-west coast.

No. 224 (second publication) —The British Admiralty has given notice (No. 509 of 1906) of the existence of a rocky ridge, with a depth of 15 feet over it, off the south-west coast of Malekula island, situated in a position from which Molembi island bears N. 45° E., distant 2 cables, and the south-western extremity of Malekula island S. 52° E.

This ridge, which is about 30 yards long and 10 yards broad, is steep-to, and has depths of 41 fatheres around it

of 41 fathoms around it.

Shire

Approximate position, lat. 16° 33% S., long. 167° 27' E.

(Variation 9° Easterly in 1906.)

This Notice affects the following Admiralty Charts: - Malo island to Efate island, No. 1570; Malekula island, No. 1579; plan of Ure on chart No. 500: Also Pacific Islands, vol. II, 1900, page 458.

EASTERN ARCHIPELAGO-CELEBES, WEST COAST-MAKASSAR APPROACH.

Kapoposang-Intended light-Dajang Dajangan-Intended alteration in light.

No. 225 (second publication).—The British Admiralty has given notice (No. 513 of 1906) that about October 1906, a white flushing light every five seconds, of the 5th order, elevated 108 feet above high water, and visible in clear weather from a distance of 16 miles, will be established on an iron framework support, 108 feet high and painted white, erected on the western point of Kapoposang island.

Approximate position, lat. 4° 413/S., long. 118° 563/E.

Also, that at the same time Dajang Dajangan light will be altered from fixed to a white flashing light every fifteen seconds, thus: flash, five seconds; eclipse, ten seconds; it will be elevated 105 feet above high water, and shown from a support 108 feet high.

Approximate position, lat. 5° 231' S., long. 119° 11' E.

Further notice will be given when these alterations have been made.

This Notice affects the following Admiralty Charts:—Strait of Makaesar, No. 2637; approach to Makaesar, No. 1293; also List of Lights, Part VI, 1906, page 93, No. 553; and Eastern Archipelago, Part II, 1904, pages 311, 305.

EASTERN ARCHIPELAGO-JAVA, NORTH COAST.

Pamanukan rock buoy-To be replaced by light buoy.

No. 226 (second publication).—The British Admiralty has given notice (No. 514 of 1906) that the black bell-buoy surmounted by a ball, marking Pamanukan rock, will be replaced by a light buoy, painted black, exhibiting a white occulting light every twenty seconds, thus: light, ten seconds; eclipse, ten seconds.

Approximate position, lat. 6° 1' S., long. 107° 52½' E.

Further notice will be given when this alteration is made.

This Notice affects the following Admiralty Chart:—Java, No. 1653; also Eastern Archipelago, Part II, 1904, page 97.

EASTERN ARCHIPELAGO -- JAVA, BAST COAST-BALL STRAIT.

Banjuwangi light-Intended alteration.

No. 227 (second publication).—The British Admiralty has given notice (No. 515 of 1906) that it is intended to replace the white fixed light at Banjuwangi by a white flashing light every fifteen seconds, thus: -flash, three seconds; eclipse, twelve seconds. The light will be of the 6th order and produced by acetylene gas.

Approximate position, lat. 8° 12½' S., long. 114° 22¾' E.

Further notice will be given when this alteration has been made.

This Notice affec's the following Admiralty Charts: - Java, eastern portion, No. 1654; plan of Bali strait on chart No. 934; plan of Banjuwangi on chart No. 932: Also List of Lights, Part VI, 1906, No. 508; and Eastern Archipelago, Part II, 1904; page 144.

EASTERN ARCHIPELAGO-Borneo, South-East OCAST.

Pulo Laut strait-Intended light-buoy.

No. 228 (sesend publication). - The British Admiralty has given notice (No. 516 of 1906) that it is intended to establish a light buoy exhibiting a white occulting light every twenty seconds, thus:—light, ten seconds; eclipse, ten seconds; near Petang Point, in the southern entrance to Pulo Laut strait.

Approximate position, lat. 3° 374' S., long. 115° 574' E.

Further Notice will be given.

Thi Notice affects the following Admiralty Chart:—Plin of Pulo Laut strait on chart No. 2662; also Eastern Archipelago, Part II, 1904, page 277.

EASTERN ARCHIPELAGO-JAVA-BALI STRAIT.

Balambangan, south point-Intended light.

No. 229 (second publication).—The British Admiralty has given notice (No. 517 of 1906) that it is intended in November to establish a white flashing light every five seconds on the south coast of Balambangan peninsula; it will be elevated 253 feet above high water, and visible in clear weather from a distance of 22 miles from the bearing of S. 76° W., through west and north to S. 77° E. The light, which will be of the 4th order and produced by acetylene gas, will be shown from an iron framework support, 69 feet high and painted white

Approximate position, lat. 8° 464' S., long. 114° 314' E.

Further notice will be given when received.

(Variation 2º Easterly in 1906.)

This Notice affects the following Admiralty Charts:—Eastern Archipelago, No. 941b; Java island, No. 1654; plan of Bali strait on chart No. 934; also List of Lights, Part VI, 1906, page 87; and Eastern Archipelago, Part II, 1904, page 191.

EASTERN ARCHIPELAGO-JAVA-BALI STRAIT.

Bansering-Intended leading lights.

No. 230 (second publication).—The British Admiralty has given notice (No. 518 of 1906) that it is intended to establish near Bensering two leading lights, one mile apart, in a direction N. 4° E. and S. 4° W. from each other, the northern and high light being white fixed and the low light red fixed, each light being produced by acetylene gas.

Approximate position, high light, lat. 8° 3½ S., long. 114° 25½ E.

Further notice will be given when received.

(Variation 2º Easterly in 1906.)

This Notice affects the following Admiralty Charts:—Eustern Archipelago, No. 941b; Juva island, No. 1654; plan of Bali strait on chart No. 934; also List of Lights, Part VI, 1906, page 87; and Eastern Archipelayo, Part II, 1904, page 143.

EASTERN ARCHIPELAGO-BALI ISLAND-BALI STRAIT.

Lichin Point-Intended light buoy in its vicinity.

No. 231 (second publication). - The British Admiralty has given notice (No. 519 of 1906) that it is intended to establish in the vicinity of Lichin Point, Bali strait, a light buoy exhibiting a white occulting light every twenty seconds, thus:—light, ten seconds; eclipse, ten seconds.

Approximate position, lat. 8° 74′ S., long. 114° 253′ E.

Further notice will be given when received.

This Notice affects the following Admiralty Charts: - Eastern Archipelago, No. 941b; Java island, No. 1654; plan of Bali strait on chart No. \$34; also Eastern Archipelago, Part II, 1904, page 147.

EASTERN ARCHIPELAGO-SUMATRA, NORTH-EAST COAST.

Straits of Durian and Berhala-Intended light buoys.

No. 232 (second publication).—The British Admiralty has given notice (No. 520 of 1906) that it is intended to establish the undermentioned light buoys in the straits of Durian and Berhala in the following positions:-

(a) Strait of Durian-A light buoy, painted white, exhibiting a white coculting light every twenty seconds, thus:—light, ten seconds; eclipse, ten seconds, on the north-eastern side of Richardson reef.

Approximate position, lat. 0° 37¼ N., long. 103° 43′ E.

(b) Berhala strait—A light buoy, painted in red and black horizontal bands, exhibiting a white occulting light every twenty seconds, thus:—light, ten seconds; eclipse, ten seconds, on the south-eastern side of Speke rock.

Approximate position, lat. 0° 37′ S., long. 104° 6½′ E.

This Notice affects the following Admiralty Charts:—Strait of Durian No. 2402; channels between Sumatra and Linga, No. 1789; also China Sea Directory, vol. I, 1896, pages 557, 546; and Supplement, 1899, page 41.

JAPAN-NAIKAI (INLAND SEA).

Shimonoseki strait-Wreck.

No. 233 (second publication).—The British Admiralty has given notice (No. 525 of 1906) that the wreck of a schooner lies sunk in Shimonoseki strait, in a position from which Manaita light beacon bears N. 87° E., distant 2½ cables, and Konpira hill N. 15° E. A mast was showing about 3 feet above water, but this would probably disappear.

Approximate position, lat. 33° 55' N., long. 130° 53½' E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Chart:—Shimonoseki strait, No. 1578; also Sailing Directions for Japan, &c., 1904, page 505.

RED SEA-SUEZ BAY.

Etuleh shoal-Bury replaced by light buoy.

No. 234 (second publication).—With reference to Notice to Mariners No. 183, dated 30th May 1903, issued by this office, the British Admiralty has given further notice (No. 527 of 1906) that the red buoy surmounted by a staff and cage, moored south-eastward of the Etuleh shoal, Suez bay, at distance of 13½ cables N. 64° W. from Kal ah Kebireh central beacon, has been replaced by a light buoy exhibiting a white fixed light.

Approximate position, lat. 29° 55' N., long. 32° 30' E.

(Variation 34° Westerly in 1906.)

This Notice affects the following Admiralty Chart: —Suez bay, No. 734; also Red Sea, 8;c., Pilot, 1900, page 89; and Supplement, 1904, page 12.

CHINA, EAST COAST-YANG TSE KIANG ESTUARY.

Period of system of light buoys altered.

No. 235 (second publication).—The British Admiralty has given notice; (No. 533 of 1906) that the period of system of each light buoy from which an occulting light is exhibited in the Yang tse estuary is now every eight seconds, thus:—light, four seconds; eclipse, four seconds.

This Notice affects the following Admiralty Chart:—Approaches to the Yang tse Kiany, No. 1602; Shanghai to Nangking, No. 2809; also China Sea Directory, vol. III, 1904, pages 402, 408, 409, 413.

KOREA, WEST COAST.

Irikobari somu (Pinnacle island) tight—Its amended position.

No. 236 (second publication).—With reference to Notice to Mariners No. 41, dated 24th January 1906, issued by this office, the British Admiralty has given further notice (No. 534 of 1906) that the period of system of Irikobari light (white flashing) is fifteen, and not ten seconds as previously stated.

Approximate position, lat. 34° 47½′ N., long. 125° 47½′ E.

This Notice affects the following Admiralty Charts: —Korean Archipelago No. 104; western coust of Korea, No. 913; S. W. coast of Korea, No. 3365; also List of Lights, Part VI, 1906, No. 922; and Sailing Directions for Japan, etc., 1904, page 74.

PACIFIC OCEAN, SOUTH-WEST-KERMADEC GROUP.

Raoul or Sunday island-Shoals in East anchorage.

No 237 (second publication).—The British Admiralty has given notice (No. 538 of 1906) that the Navigating Officer's Remark Book, H.M.S. Prometheus, 1905, contains the following information respecting the existence of the undermentioned pinnacle rocks in East anchorage of Raoul or Sunday island, situated in the following positions:—

(1) A rock, with a depth of 2 fathoms over it at low water, 5½ cables N. 87° E. from Rayner Point.

2) A rock, with a depth of 2½ fathoms over it at low water, 5½ cables S. 87° E. from Rayner Point.

A rock, with a depth of 2 fathoms over it at low water, 3 cables S. 67° E. from
Rayner Point.

A rock, with a depth of 2 fathoms over it at low water, 3 cables S. 86° E. from Rayner Point.

(5) A rock, with a depth of 2 fathoms over it at low water, 3 cables N. 87° E. from Rayner Point.

These rocks appear to be steep-to, having depths of 7, 8, and 9 fathoms around them.

Approximate position, Rayner Point, lat. 29° 151' S., long. 177° 591' E.

(Variation 12º Easterly in 1906.)

This Notice affects the following Admiralty Chart: -Raoul or Sunday island, No. 568; also New Zealand Pilot, 1901, page 384; and Supplement, 1903, page 28.

The 23rd June 1906.

INDIA, WEST-BOMBAY COAST.

Bombay harbour-New dock works-Petroleum Jetty.

No. 238 (second publication).—With reference to Notice to Mariners No. 53, dated 10th February 1906, issued by this office, the Bombay Government has given further inotice (No. 57 of 1906) that the dam being completed, a wooden pile jetty, called the Petroleum Jetty, 120 feet long, has been constructed on the east face of the dam to accommodate oil steamers visiting the port and replacing the floating pipe line and pontoons, which have now been withdrawn.

2. Two mooring buoys have been laid down north and south of the Petroleum Jetty

for the oil steamors.

3. Further, the east face of the dam is being continued in a northerly direction, and the works, as they progress, will be marked by a black can buoy, exhibiting a red light at night. Vessels or boats should not pass to the westward of this buoy.

This Notice affects Admiralty Chart:—Port of Bombay, No. 655; also West Coast of Hindustan Pilot, 4th edition, 1898, page 201, and Supplement, 1903, page 15.

INDIA, WEST-BOMBAY COAST.

Rajpuri Point - Red buoy removed for the south-west monsoon.

No 239 (second publication).—The Bombay Government has given notice (No. 60 of 1906) that the red buoy on the north side of the "Whale reef" off the Rajpuri Point was removed for the south-west monsoon on the 19th May 1906.

INDIA, WEST-BOMBAY COAST.

Buoys between Alibag and Bhatkal-Dates of removal from their positions.

No. 240 (second publication).—With reference to Notice to Mariners No. 186, dated 26th May 1906, issued by this office, the Bombay Government has given further notice (No. 64 of 1906) that the undermentioned buoys were removed from their positions on the dates noted against each:—

Alibag buoy	***	 	***	17th	May	1906.
Ambulgad Reef buoy	***			16th	17	19
Chaldia Rock buoy				15th	***	"
Malvan Outer Rock buo	y			16th	27	"
Johnstone Castle buoy				17th		,,
Vengurla Harbour buoy				20th		,,,
Malvan Harbour buoy				7 W/1		29
Murdeshwar buoy				13th		37
Bhatkal buoy				17th		79

The 25th June 1906.

BAY OF BENGAL-ORISSA COAST.

False Point anchorage-Fairway and Outer spit buoys shifted.

No. 213 (tkird publication).—With reference to notice to Mariners, No. 189, dated 26th May 1906, issued by this office, the Port Officer, Cuttack and Balasore ports, reports having shifted the Fairway and Outer spit buoys; the former 4½ cables N. 70° E. from its former position, in 27 feet reduced; the latter 5 cables N. 50° E. from its former position, in 20 feet reduced:—

Bearings from buoys.

Fairway buoy

... | Flagstaff S, 11° W.
Telegraph bungalow—S. 62° W.

Outer spit buoy

... Flagstaff S. 5° 30′ W. Telegraph station S. 67° W.

The bearings are magnetic.

AUSTRALIA SOUTH-SPENCER GULF.

Louth bay-A Cheese-shaped buoy placed.

No. 214 (third publication).—The Secretary to the Marine Board, Port Adelaide, has given notice (No. 10 of 1906) that a Cheese-shaped buoy, painted black, has been placed in 23 fathoms off the end of the reef to the eastward of and close to Louth Bay jetty.

There is no less water to the northward of the buoy, but it shoals gradually from the

buoy in towards the end of the jetty.

Approximate position, lat. 34° 32′ S., long. 135° 56′ 15″ E.

This Notice affects Admiralty Chart No. 2389b.

INDIA WEST-BOMBAY COAST.

Mangolore-Wreck in anchorage disappeared.

No. 215 (third publication).—With reference to Notice to Mariners No. 426, dated 30th October 1905, issued by this office, the British Admiralty has given further notice (No. 472 of 1906) that the cargo boat which sank in a depth of $5\frac{1}{2}$ fathoms in steamer anchorage, Mangalore, at a distance of $1\frac{1}{10}$ miles S. 45° W., from Mangalore lighthouse, has disappeared, and is no longer an obstruction to the anchorage ground. It has consequently been removed from the charts. .

Approximate position on chart No. 3267, lat. 12° 49½ N., long. 74° 49′ E.

This Notice affects the following Admiralty Charts: -Netrani to Mangalore, No. 745; Mulki to Mount Dilli, No. 746; Mangalore harbour on chart No. 3267: Also, West coast of Hindustan Pilot, 1898, page 145.

CHINA, EAST COAST-SHANTUNG-KYAU CHAU BAY.

Yu nui san light-house-Fog bell established.

No. 216 (third publication). - The British Admiralty has given notice (No. 477 of 1906) that a fog bell, which will be struck in thick or foggy weather, when the fog signals of a passing vessel are heard, has been established at Yu nui san light-house, entrance to Kyau

Approximate position on chart No. 857, lat. 36° 24' N., long. 120° 164' E.

This Notice affects the following Admirally Charts:—Kyau Chau to Miau tau strait No. 1255; Kyau Chau bay, No. 857: Also List of Lights, Part VI, 1906, No. 883; and China Sea Directory, vol. III, 1904, page 529.

AUSTRALIA, WEST-ROEBUCK BAY.

Gantheaume Point light-Churacter altered.

No. 217 (third publication).—With reference to Notice to Mariners No. 313, dated 12th August 1905, issued by this office, the British Admiralty has given further notice (No. 493 of 1908) the date of the contract of the con of 1906) that on and after 1st May the character of Gantheaume Point light in the approach to Roebuck bay would be altered from fixed to white occulting every fifteen seconds, thus:light, ten seconds; eclipse, five seconds.

Approximate position, lat. 17° 58½ S., long. 122° 10½ E.

This Notice affects the following Admiralty Charts : -- Australia, north-west coast, No. 475; Buccaneer Archipelago to Bedout island, No. 1048; Rocbuck bay, No. 858; Also List of Lights, Part VI, 1906, No. 1179a; Australia Directory, vol. III, 1905, page 215.

JAPAN-NAIKAI.

Osaka light-Red sector discontinued.

No. 218 (third publication).—The British Admiralty has given notice (No. 499 of 1906) that, after May 1906, the mouth of the Agikawa, being blocked in connection with the harbour works at Osaka, the red sector between the bearings of N. 73° E. and N. 83° E., shown from Fort Tempo zan light, would be discontinued, the light will then show white from the bearing of N. 62° W., through north and east, to S. 4° W.

Approximate position, lat. 34° 39½' N., long. 135° 25½' E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Charts:—Naikai No. 2875; Kobe and Osaka, No. 16: Also, List of Lights, Part VI, 1906, No. 1042, and Sailing Directions for Japan, &c., 1904, page 410.

A. S. BALFOUR, LIEUT., R.I.M., Port Officer of Calcutta. pro. tem.



APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, JULY 11, 1906.

NOTICES TO MARINERS.

THE following Notices are published for general information.

CALCUTTA, the 6th July 1906.

W. A. INGLIS,
Secretary, Marine Department.

INDIA, WEST-BOMBAY COAST.

Bombay harbour-Ballard Pier extension works-Buoy removed.

No. 246 (first publication).—With reference to Notice to Mariners No. 244, dated 28th June 1906, issued by this office, the Bombay Government has given further notice (No. 68 of 1906) that the obstruction at the Ballard Pier extension works has now been raised and the buoy marking it removed.

This Notice affects Admiralty Chart:—Port of Bombay, No. 655; also West Coast of Hindustan Pilot, 4th Edition, 1898, page 201; and Supplement 1903, page 15.

EASTERN ARCHIPELAGO-JAVA-MADURA STRAIT.

Meinderts reef intended light - Amended description.

No. 247 (first publication).—With reference to Notice to Mariners No. 159, dated 12th May 1906, issued by this office, the British Admiralty has given further notice (No. 563 of 1906) that the period of system of the intended white occulting light on Meinderts reef will be ten seconds, thus:—light, five seconds, eclipse, five seconds, and not twenty seconds as previously announced.

Approximate position, lat. 7° 401 S., long. 114° 26' E.

Further Notice will be given.

This Notice affects the following Admiralty Charts:—Eastern Archipelago, No. 941b; Java island, No. 1654: Also List of Lights, Part VI, 1906, No. 506; and Eastern Archipelago, Part II, 1904, page 140.

CHINA-CANTON RIVER-BOCA TIGRIS.

Chain rock-Light intended.

No. 248 (first publication).—The British Admiralty has given notice (No. 575 of 1906) that the Chinese Government intend, probably during next September, to exhibit a red fixed dioptric light of the 6th order, elevated 33 feet above high water, and visible from a distance of 7 miles, from a red brick tower, 30 feet high, surmounted by a pedestal lantern now in course of erection on Chain rock, Boca Tigris, Canton river.

Approximate position, lat. 22° 47½ N., long. 113° 37½ E.

Further Notice will be given when received.

This Notice affects the following Admiralty Charts:—Canton river, No. 2562; Lintin bar to Tiger islant, No. 1741: Also List of Lights, Part VI, 1906, page 123; and China Sea Directory, vol. III, 1904, page 92.

PACIFIC OCEAN-ELLIOE GROUP.

Nanomana island-Bink reported northward.

No. 249 (first publication).—The British Admiralty has given notice (No. 586 of 1906) of the existence of a bank, with a depth of 7 fathoms over it, situated at a distance of 2 miles N. 3° E. from the north point of Nanomana island, Ellice islands. This bank, on which rollers were observed, is about half a mile long in a north-easterly and south-westerly direction and two cables broad. It has been placed on the charts in approximately lat. 6° $15\frac{1}{2}$ ° S., long. 176° $20\frac{1}{2}$ ° E., and marked P.D.

(Variation 9° Easterly in 1906.)

This Notice affects the following Admiralty Charts:—Ellice islands to Phanix islands, No. 1830; plan of Nanomana island on chart No. 766: Also Pacific Islands, vol. II, 1900, page 260.

CEYLON, WEST COAST-COLOMBO.

Standard time adopted - Alteration in time of making Time Signal.

No. 250 (first publication).—The British Admiralty has given notice (No. 587 of 1906) that Standard time of India, that is of the meridian of 82° 30′ East longitude, has been adopted in Ceylon; the time signal at the Harbour Master's Office at Colombo will therefore in future be made at 4^h 15^m 0^s and at 20^h 15^m 0^s Standard Mean time, corresponding respectively to 22^h 45^m 0^s and 14^h 45^m 0^s Greenwich Mean time. In other respects this time signal is made as described in the Admiralty List of Time Signals, 1904, No. 28.

Approximate position, lat. 6° 56′ 34" N., long. 79° 50′ 34" E.

This Notice affects the following Admiralty Charts:—Ceylon, south coast, No. 813; Colombo harbour, No. 914: Also List of Time Signals, 1904, page 18, No. 28; West Coast of Hindustan Pilot, 1898, page 98; Supplement, 1903, page 5; Bay of Bengal Pilot, 1901, page 75; and Supplement, 1903, page 2.

The 6th July 1906.

EASTERN ARCHIPELAGO - MALACCA STRAIT - PULO PENANG.

Pulo Rimau light - Temporary alteration.

No. 241 (second publication).—With reference to Notice to Mariners No. 84, dated 3rd March 1905, issued by this office, the British Admiralty has given further notice (No. 548 of 1906) that further information, dated 9th April 1906, has been received from the Harbour Master at Penang that Pulo Rimau light (red occulting) will, in consequence of an accident, temporarily show white instead of red from the bearing of N. 59° E., through east, to 8. 74° E.

Approximate position, lat. 5° 14' N., long. 100° 16½' E.

(Variation 2° Easterly in 1906.)

This Notice temporarily affects the following Admiralty Charts: — Acheh head to Tyingkok bay, No. 2760; Butang group to Pulo Berhala, No. 793; Penang harbour, No. 1366; Malacea strait, No. 1355; also, List of Lights, Part VI, 1906, No. 408; and China Sea Directory, Vol. I, 1896, page 147.

AUSTRALIA SOUTH-PORT ADELAIDE RIVER.

Light beacons under construction.

No. 242 (second publication).—The British Admiralty has given Notice (No. 552 of 1906) that, in connection with the erection of light beacons abreast beacons Nos. 3 to 9 on the north and east sides of the channel, Port Adelaide river, a barge exhibiting an anchor light at night will be moored in the stream during the progress of the work, which will be commenced from No. 9 beacon. A green fixed light will be exhibited from each beacon when completed.

Approximate position, No. 9 beacon, lat. 3±° 47½′ S., long. 138° 31′ E.

Further notice will be given when these beacons are completed.

This Notice affects the following Admiralty Chart:—Port Adelaide, No. 1750; also, List of Lights, Part VI, 1906, page 206; and Australia Directory, Vol. I, 1897, page 332.

AUSTRALIA, SOUTH-GULF OF ST. VINCENT.

Port Adelaide river-Extra Beacons placed-Amended Sailing Directions.

No. 243 (second publication).—With reference to Notice to Mariners No. 62, dated 10th February 1906, issued by this office, the Secretary, Marine Board, Port Adelaide, has given further notice (No. 11 of 1906) that eight extra beacons have been placed on the north and east side of the cutting. The beacons are painted black and the lanterns green, from which a green light showing towards the cutting is exhibited; a white light is also exhibited from the back of each lantern showing towards the shore.

All the green light beacons are numbered from the first or exceed the second of the second of the second of the first or exceed the second of the second o

All the green light beacons are numbered from the first or seaward beacon with the letter "G" added as follows:—No. OG, being outside beacon; No. 1G, near the reflecting beacon; No. 2G, opposite the old boat channel. This light indicates the turning point from No. 2 (red) lead towards No. 3. All the others, that is, Nos. 3G to 9G, both inclusive, are placed opposite the corresponding numbers of the white light beacons on the other side of the cutting.

All the single light beacons are placed about 15 feet back from the cutting, and painted red to starboard and black to port. The lights are white to starboard and green to port from seaward.

The red light on the pile beacon south of No. 3 being no longer required will, on and

after the 1st June 1906, be discontinued.

In consequence of the above alterations the sailing directions have been amended to read as follows:—

Sailing Directions.

By night.—In approaching the anchorage, vessels of deep draught should not bring the white light on the old structure to bear north of N. E. by E. in order to avoid the four-fathom patch, which bears N. W. half N. from the light on Wonga Shoal; then get No. 1 lead (which consists of two red lights vertical 10 feet apart, and two white lights vertical 11 feet 9 inches apart) in line; keep these in line passing between the occulting light on the red buoy and the outer green light on the north bank, also between the other green lights on the north bank and the white lights on the revetment mound.

Steer on the same line until the two red lights of No. 2 lead are coming on; then steer with them in line until abreast of No. 2G beacon; then direct the course to pass between No. 3 and No. 3G beacon; and so on from beacon to beacon round the point until No. 9 is reached. From a safe distance off No. 9 the lights of No. 10 lead will be seen; keep them in line until the red light is about a quarter of a point open to the right of the white light of No. 11 lead; then gradually alter the course to bring the lights of No. 11 lead in line; keep them in line (a sharp look out being kept for the mooring buoys on the starboard hand) until the lights of No. 12 lead are seen coming into line; proceed as before by altering the course before the lights are on with each other. The same applies in the change from No. 12 to No. 13 lead. When the lights on the wharves are seen opening out off Luff Point, alter the ecourse so as to round the point at a safe distance, and then up the centre of the channel, looking out for the mooring buoys on the starboard hand.

In going outwards the directions are just the opposite to those given for those coming inwards; but in such case, in changing from one lead to another, the course should be gradually altered when abreast of the low (red) beacon of each lead, excepting No. 2 lead. In this case, when abreast of No. 3 beacon, gradually alter the course to a safe distance off No. 2G until the two red lights of No. 2 lead are in line, then proceed outwards with No. 2 lead in line.

By day.—The directions by day are the same as by night, merely substituting the beacons for the lights.

This affects Admiralty Charts 2389A and B, 1750 and 1752.

During the progress of the work at the Light's Passage Harbour Works, masters of vessels exempt from pilotage may, if they so desire, avail themselves of the services of a pilot to assist them in passing such works, either in or out, at one-half the usual rates.

If the usual exemption flag is not hoisted, it will be taken as a signal that a pilot is

required. At night if a pilot is required the usual signal for a pilot should be shown.

N.B.—Owing to the nature of the work in progress, this notice may require to be amended from time to time, and therefore should be treated as tentative only.

INDIA, WEST-BOMBAY COAST.

Bombay hurbour-Ballard pier-New extension works marked by buoy.

No. 244 (second publication).—The Bombay Government has given notice (No. 65 of 1906) that several blocks of concrete have been washed off the works at the East end of the Ballard Pier Extension somewhat obstructing the passage to the old steps.

2. A small black painted conical Buoy will be moored to mark the end of this obstruction which has a depth on it of 12 feet at Low Water.

3. Vessels approaching this draught should not pass between the Buoy and end of the new Pier Extension works.

This Notice affects Admiralty Chart:—Port of Bombay, No. 655; also West Coast of Hindustan Petot, 4th edition, 1898, page 201; and Supplement, 1903, page 15.

INDIA, WEST-BOMBAY (GOA) COAST.

Din lights - Their non-exhibition dureing certain months.

No. 245 (second publication).—The following Notice to Mariners issued by the Bombay Government (No. 66 of 1906) is republished :-

Information, dated 17th May 1906, has been received from the Captain of the Port that the following lights at Diu, viz., the Red fixed light of the Forte de Mar and the White fixed light on the Castle Culwark foundation, will not be exhibited during the months of June, July and August 1906.

This Notice affects the following Admiralty Charts: — Gulf of Kutch to Viziadrug (plan Diu harbour), No. 2736; Dwarka Point to Diu Head, No. 1420; and Diu Head to Goapnath Point, No. 50; and West Coast of Hindustan Pilot, fourth edition, 1898, page 258, and Supplement 1903, page 16; also Admirally Light List, Part VI, 1906, Nos. 217 and 218, and List of Light-houses and Light-vessels in British India, Nos. 217 and 218.

· The 28th June 1906.

BAY OF BENGAL.

Caution - Report of floating wreckage.

No. 219 (third publication).-A telegraphic communication has been received from Colombo, dated S.S. Begonia, 12th June, stating that a large amount of floating wreckage setting eastward was passed in latitude 14° N., longitude 85° E. Mariners are hereby warned.

The 19th June 1906.

NEW ZEALAND-SOUTH ISLAND.

Taiaroa head-Otago harbour entrance-Fog signal altered.

No. 220 (third publication).—The British Admiralty has given notice (No. 503 of 1906) that on 20th April 1906, the fog gong on Taiaroa head, Otago harbour entrance, would be replaced by a fog explosive, which will give during thick or foggy weather one report every six minutes.

Approximate position, lat. 45° 47' S., long. 170° 45' E.

This Notice affects the following Admiralty Charts:—Otago to Mataura river No. 2533; Ninety Miles beach to Otago, No. 2532; Otago harbour, No. 2411: Also, List of Lights, Part VI, 1906, No. 1677; New Zealand Pilot, 1901, page 293; and Supplement, 1903, paye 25.

PACIFIC OCEAN, SOUTH-SOCIETY ISLANDS.

Buoyage unreliable.

No. 221 (third publication).—The British Admiralty has given notice (No. 504 of 1906) that owing to the recent hurricane the buoyage of those islands cannot be depended on.

Approximate position, lat. 17° 0' S., long. 150° 0' W.

This Notice affects the following Admiralty Chart:—Tuamoto or Low Archipelago, No. 767: Also Pacific Islands, vol. III, 1900, page 47; and Supplement 1903, page 4.

EASTERN ARCHIPELAGO-SUMATRA, WEST COAST- KONINGINNE BAY.

Emma haven light-White sector abolished.

No. 222 (third publication).—With reference to Notice to Mariners No. 111, dated 26th March 1906, issued by this office, the British Admiralty has given further notice (No. 505 of 1906) that the white sector in the light (fixed) exhibited from the breakwater head, Emma haven, has been abolished, the light now shows red from the bearing of North to N. 84° E.

Approximate position, lat. 1° 0' S., long. 100° 221' E.

(Variation 2º Easterly in 1906.)

This Notice affects the following Admiralty Charts: — Ujong Masang to Ujong Indrapura, No. 709; Koninginne bay, No. 212; Also List of Lights, Part VI, 1906, No. 466; China Sea D rectory, vol. I, 1896, page 302; and Supplement, 1899, page 21.

CEYLON, WEST COAST-COLOMBO HARBOUR APPROACH.

Nilkete rocks-Wreck of the S. S. " Kazan."

No. 223 (third publication).—The British Admiralty has given notice (No. 508 of 1906) that the wreck of the S.S. Kuzan, which ran on the Nilkete rocks in the approach to Colombo harbour, forms a prominent object from seaward, and as the vessel is unlikely to disappear quickly she will be useful as a navigational aid for some time.

Approximate position, lat. 6° 41' N., long. 79° 528' E.

This Notice affects the following Admiralty Chart:—Ceylon, No. 813: Also Bay of Bengal Pilot, 1901, page 77; and Bay of Bengal Filot, 1898, page 93.

PACIFIC OCEAN-NEW HEBRIDES GROUP.

Malekula island-Rock reported off the south-west coast.

No. 224 (third publication).—The British Admiralty has given notice (No. 500 of 1906) of the existence of a rocky ridge, with a depth of 15 feet over it, off the south-west coast of Malekula island, situated in a position from which Molembi island bears N. 45° E., distant 2 cables, and the south-western extremity of Malekula island S. 52° E.

This ridge, which is about 30 yards long and 10 yards broad, is steep-to, and has depths

of 41 fathoms around it.

Approximate position, lat. 16° 333′ S., long. 167° 27′ E.

(Variation 9° Easterly in 1906.)

This Notice affects the following Admiralty Charts:—Malo island to Efate island, No. 1570; Malekula island, No. 1579; plan of Ure on chart No. 500: Also Pacific Islands, vol. 11, 1900, page 458.

EASTERN ARCHIPELAGO-CELEBES, WEST COAST-MAKASSAR APPROACH.

Kapoposang-Intended light-Dajang Dajangan-Intended alteration in light.

No. 225 (third publication).—The British Admiralty has given notice (No. 513 of 1906) that about October 1906, a white flashing light every five seconds, of the 5th order, elevated 108 feet above high water, and visible in clear weather from a distance of 16 miles,

will be established on an iron framework support, 108 feet high and painted white, erected on the western point of Kapoposang island.

Approximate position, lat. 4° 413′ S., long. 118° 563′ E

Also, that at the same time Dajang Dajangan light will be altered from fixed to a white flashing light every fifteen seconds, thus: flash, five seconds; eclipse, ten seconds; it will be elevated 105 feet above high water, and shown from a support 108 feet high.

Approximate position, lat. 5° 231' S., long. 119° 11' E.

Further notice will be given when these alterations have been made.

This Notice affects the following Admiralty Charts:—Strait of Makassar, No. 2637; approach to Makassar, No. 1293; also List of Lights, Part VI, 1906, page 93, No. 553; and Eastern Archipelago, Part II, 1904, pages 311, 305.

EASTERN ARCHIPELAGO-JAVA, NORTH COAST.

Pamanukan rock buoy-To be replaced by light buoy.

No. 226 (third publication).—The British Admiralty has given notice (No. 514 of 1906) that the black bell-buoy surmounted by a ball, marking Pamanukan rock, will be replaced by a light buoy, painted black, exhibiting a white occulting light every twenty seconds, thus: light, ten seconds; eclipse, ten seconds.

Approximate position, lat. 6° 1' S., long. 107° 52½' E.

Further notice will be given when this alteration is made.

This Notice affects the following Admiralty Chart: - Java, No. 1653; also Eastern Archipelago, Part II, 1904, page 97.

EASTERN ARCHIPELAGO -- JAVA, BAST COAST-BALI STRAIT.

Banjuwangi light-Intended alteration.

No. 227 (third publication).—The British Admiralty has given notice (No. 515 of 1906) that it is intended to replace the white fixed light at Banjuwangi by a white flashing light every fifteen seconds, thus:-flash, three seconds; eclipse, twelve secon is. The light will be of the 6th order and produced by acetylene gas.

Approximate position, lat. 8° 12½' S., long. 114° 22¾' E.

Further notice will be given when this alteration has been made.

This Notice affec's the following Admiralty Charts:—Java, eastern portion, No. 1654; plan of Bali strait on chart No. 934; plan of Banjuwangi on chart No. 932: Also List of Lights, Part VI, 1906, No. 508; and Eastern Archipelago, Part II, 1904; page 144.

EASTERN ARCHIPELAGO-Borneo, South-East coast.

Pulo Laut strait - Intended light-buoy.

No. 228 (third publication).—The British Admiralty has given notice (No. 516 of 1906) that it is intended to establish a light buoy exhibiting a white occulting light every twenty seconds, thus:—light, ten seconds; eclipse, ten seconds; near Petang Point, in the southern entrance to Pulo Laut strait.

Approximate position, lat. 3° 374' S., long. 115° 573' E.

Further Notice will be given.

This Notice affects the following Admiralty Chart: - Plun of Pulo Lind strait on chart No. 2662; also Eastern Archipelago, Part II, 1904, page 277.

EASTERN ARCHIPELAGO-JAVA-BALI STRAIT.

Balambangan, south point-Intended light.

No. 229 (third publication).—The British Admiralty has given notice (No. 517 of 1906) that it is intended in November to establish a white flashing light every five seconds on the south coast of Balambangan peninsula; it will be elevated 253 feet above high water, and visible in clear weather from a distance of 22 miles from the bearing of S. 76° W., through

west and north to S. 77° E. The light, which will be of the 4th order and produced by acetylene gas, will be shown from an iron framework support, 69 feet high and painted white.

Approximate position, lat. 8° 46¼ S., long. 114° 31½ E.

Further notice will be given when received.

(Variation 2º Easterly in 1906.)

This Notice affects the following Admiralty Charts:—Eastern Archipelago, No. 941h; Java island, No. 1654; plan of Bali strait on chart No. 934; also List of Lights, Part VI, 1906, page 87; and Eastern Archipelago, Part II, 1904, page 191.

EASTERN ARCHIPELAGO-JAVA-BALI STRAIT.

Bansering - Intended leading lights.

No. 230 (third publication).—The British Admiralty has given notice (No. 518 of 1906) that it is intended to establish near Bensering two leading lights, one mile apart, in a direction N. 4° E. and S. 4° W. from each other, the northern and high light being white fixed and the low light red fixed, each light being produced by acetylene gas.

Approximate position, high light, lat. 8° 3½ S., long. 114° 25½ E.

Further notice will be given when received.

(Variation 2º Easterly in 1906.)

This Notice affects the following Admiralty Charts:—Eustern Archipelago, No. 941b; Juva island, No. 1654; plan of Bali strait on chart No. 934; also List of Lights, Part VI, 1906, page 87; and Eastern Archipelago, Part II, 1904, page 143.

EASTERN ARCHIPELAGO-BALI ISLAND-BALI STRAIT.

Lichin Point-Intended light buoy in its vicinity.

No. 231 (third publication).—The British Admiralty has given notice (No. 519 of 1906) that it is intended to establish in the vicinity of Lichin Point, Bali strait, a light buoy exhibiting a white occulting light every twenty seconds, thus:—light, ten seconds; eclipse, ten seconds.

Approximate position, lat. 8° 74' S., long. 114° 254' E.

Further notice will be given when received.

This Notice affects the following Admiralty Charts:—Eastern Archipelago, No. 941b; Java island, No. 1654; plan of Bali strait on chart No. 934; also Eastern Archipelago, Part II, 1904, page 147.

EASTERN ARCHIPELAGO-SUMATRA, NORTH-BAST COAST.

Straits of Durian and Berhala-Intended light buoys.

No. 232 (third publication).—The British Admiralty has given notice (No. 520 of 1906) that it is intended to establish the undermentioned light buoys in the straits of Durian and Berhala in the following positions:—

(a) STRAIT OF DURIAN-A light buoy, painted white, exhibiting a white occulting light every twenty seconds, thus:—light, ten seconds; eclipse, ten seconds, on the north-eastern side of Richardson reef.

Approximate position, lat. 0° 374' N., long. 103° 43' E.

(b) Berhala strait—A light buoy, painted in red and black horizontal bands, exhibiting a white occulting light every twenty seconds, thus:—light, ten seconds; eclipse, ten seconds, on the south-eastern side of Speke rock.

Approximate position, lat. 6° 37' S., long. 104° 61' E.

This Notice affects the following Admiralty Charts:—Strait of Durian No. 2402; channels between Sumatra and Linga, No. 1789; also China Sea Directory, vol. I, 1896, pages 557, 546; and Supplement, 1899, page 41.

JAPAN-NAIKAI (INLAND SEA).

Shimonoseki strait - Wreck.

No. 233 (third publication).—The British Admiralty has given notice (No. 525 of 1906) that the wreck of a schooner lies sunk in Shimonoseki strait, in a position from which Manaita light beacon bears N. 87° E., distant 2½ cables, and Konpira hill N. 15° E. A mast was showing about 3 feet above water, but this would probably disappear.

Approximate position, lat. 33° 55′ N., long. 130° 53½′ E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Chart:—Shimonoseki strait, No. 1578; also Sailing Directions for Japan, &c., 1904, page 505.

RED SEA-SUEZ BAY.

Etuleh shoal-Bury replaced by light buoy.

No. 234 (third publication).—With reference to Notice to Mariners No. 183, dated 30th May 1903, issued by this office, the British Admiralty has given further notice (No. 527 of 1906) that the red buoy surmounted by a staff and cage, moored south-eastward of the Etuleh shoal, Suez bay, at distance of 13½ cables N. 64° W. from Kal ah Kebireh central beacon, has been replaced by a light buoy exhibiting a white fixed light.

Approximate position, lat. 29° 55′ N., long. 32° 30′ E.

(Variation 34° Westerly in 1906.)

This Notice affects the following Admiralty Chart:—Suez bay, No. 734; also Red Sea, &c, Pilot, 1900, page 89; and Supplement, 1904, page 12.

CHINA, EAST COAST-YANG TSE KIANG ESTUARY.

Period of system of light buoys altered.

No. 235 (third publication).—The British Admiralty has given notice (No. 533 of 1906) that the period of system of each light buoy from which an occulting light is exhibited in the Yang tse estuary is now every eight seconds, thus:—light, four seconds; eclipse, four

This Notice affects the following Admiralty Chart:—Approaches to the Yang tse Kiany, No. 1602; Shanghai to Nangking, No. 2809; also China Sea Directory, vol. III, 1904, pages 402, 408, 409, 413.

KOREA, WEST COAST.

Irikobari somu (Pinnacle island) light-Its amended position.

No. 236 (third publication).—With reference to Notice to Mariners No. 41, dated 24th January 1906, issued by this office, the British Admiralty has given further notice (No. 534 of 1906) that the period of system of Irikobari light (white flashing) is fifteen, and not ten seconds as previously stated.

Approximate position, lat. 34° 471' N., long. 125° 471' E.

This Notice affects the following Admiralty Charts:—Korean Archipelago No. 104; western coust of Korea, No. 913; S. W. coast of Korea, No. 3365; also List of Lights, Part VI, 1906, No. 922; and Sailing Directions for Japan, etc., 1904, page 74.

PACIFIC OCEAN, SOUTH-WEST-KERMADEC GROUP.

Raoul or Sunday island-Shoals in East anchorage.

No 237 (third publication).—The British Admiralty has given notice (No. 538 of 1906) that the Navigating Officer's Remark Book, H.M.S. Prometheus, 1905, contains the following information respecting the existence of the undermentioned pinnacle rocks in East anchorage of Raoul or Sunday island, situated in the following positions:—

(1) A rock, with a depth of 2 fathoms over it at low water, 5½ cables N. 87° E. from Rayner Point.

(2) A rock, with a depth of $2\frac{1}{2}$ fathoms over it at low water, $5\frac{1}{2}$ cables S. 87° E. from Rayner Point.

A rock, with a depth of 2 fathoms over it at low water, 3 cables S. 67° E. from Rayner Point.

A rock, with a depth of 2 fathoms over it at low water, 3 cables S. 86° E. from (4) Rayner Point.

A rock, with a depth of 2 fathoms over it at low water, 3 cables N. 87° E. from Rayner Point.

These rocks appear to be steep-to, having depths of 7, 8, and 9 fathoms around them.

Approximate position, Rayner Point, lat. 29° 15½' S., long. 177° 59½' E.

(Variation 12° Easterly in 1906.)

This Notice affects the following Admirally Chart: - Raoul or Sunday island, No. 568; also New Zealand Pilot, 1901, page 384; and Supplement, 1903, page 28.

The 23rd June 1906.

INDIA, WEST-BOMBAY COAST.

Bombay harbour -- New dock works -- Petroleum Jetly.

No. 238 (third publication).—With reference to Notice to Mariners No. 53, dated 10th February 1906, issued by this office, the Bombay Government has given further notice (No. 57 of 1906) that the dam being completed, a wooden pile jetty, called the Petroleum Jetty, 120 feet long, has been constructed on the east face of the dam to accommodate oil steamers visiting the port and replacing the floating pipe line and pontoons, which have now been withdrawn.

2. Two mooring buoys have been laid down north and south of the Petroleum Jetty

for the oil steamers.

3. Further, the east face of the dam is being continued in a northerly direction, and the works, as they progress, will be marked by a black can buoy, exhibiting a red light at night. Vessels or boats should not pass to the westward of this buoy.

This Notice affects Admiralty Chart :- Port of Bombay, No. 655; also West Coast of Hindustan Pilot, 4th edition, 1898, page 201, and Supplement, 1903, page 15.

INDIA, WEST-BOMBAY COAST.

Rajpuri Point - Red buoy removed for the south-west monsoon.

No. 239 (third publication).—The Bombay Government has given notice (No. 60 of 1906) that the red buoy on the north side of the "Whale reef" off the Rajpuri Point was removed for the south-west monsoon on the 19th May 1906.

INDIA, WEST-BOMBAY COAST.

Buoys between Alibag and Bhatkal-Dates of removal from their positions.

No. 240 (third publication). - With reference to Notice to Mariners No. 186, dated 26th May 1906, issued by this office, the Bombay Government has given further notice (No. 64 of 1906) that the undermentioned buoys were removed from their positions on the dates noted against each :-

Alibag buoy				17th	May	1906.
Ambulgad Reef buoy	***		•••	16th	,,	12
Chaldia Rock buoy		***				"
Malvan Outer Rock buoy	y		•••	16th	"	,,
	***	100		17th		9)
Vengurla Harbour buoy		•••		20th		,,
Malvan Harbour buoy	•••			17th		,,,
Murdeshwar buoy				13th		. ,,
Bhatkal buoy		•••		17th	,,,	"

The 25th June 1903.

A. S. BALFOUR, LIEUT., R.I.M., Port Officer of Calcutta. pro. tem.



APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, JULY 18, 1906.

NOTICES TO MARINERS.

THE following Notices are published for general information.

CALCUTTA, the 13th July 1906.

W. A. INGLIS, Secretary, Marine Department.

BAY OF BENGAL-BURMA COAST.

Arakan river-Outer bar shoaling.

No. 251 (first publication).—The British Admiralty has given notice (No. 592 of 1906) that there is considerably less water than shown on the chart on the outer bar of the Arakan river, in the approach to Akyab. A note to this effect has been placed on the charts.

Approximate position, lat. 20° 3' N., long. 92° 54' E.

This Notice affects the following Admiralty Charts: —Elephant Point to Cheduba strait, No. 821; Arakan river with plan of Akyab, No. 1884: also Bay of Bengal Pilot, 1901, page 256.

AFRICA, SOUTH-CAPE COLONY.

Immigration flag-Description and use of.

No. 252 (first publication).—The British Admiralty has given notice (No. 595 of 1906) that a yellow flag having a black ball in the centre has been adopted as the Immigration flag at all ports within the colony. This flag (hoisted at the stay) by vessels arriving in port denotes that the examination of passengers by the Immigration Officer is being carried out, and that no person not provided with a permit, or duly authorised by the Immigration Office, is under panalty, allowed on heard that vessel Office, is, under penalty, allowed on board that vessel.

This Notice affects the following Admiralty Publications:—Africa Pilot, Part II, 1901, page 84; and Africa Pilot, Part III, 1905, page 17.

JAPAN-NAIKAL

Akashi no seto-Wreck of a sunken vessel.

No. 253 (first publication).—The British Admiralty has given notice (No. 600 of 1906) that the wreck of a vessel lies sunk in Akashi no seto, in a position from which Yesaki light bears S. 40° W., distant 2 miles and Hira iso light S. 67° E.

Approximate position, lat. 34° 38' N., long. 135° 1' E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Chart: -- Akashi no seto No. 93: also Sailing Directions for Japan, &c., 1904, page 426.

CHINA, NORTH-LIAU RIVER.

Newchwang-Beacon removed in approach-Time signal altered.

No. 254 (first publication). - The British Admiralty has given notice (No. 601 of 1906)

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Also that the time-ball at the Custom House flagstaff, Newchwang, is dropped every day at 0^h 0^m 0^s mean time of the 120° of East longitude, or 16^h 0^m 0^s G.M.T., instead of on Saturdays at 0^h 0^m 0^s Local Mean time as formerly. Further particulars in regard to this signal are not given, but it is presumed that Standard time of the 120th meridian of East longitude has been adopted at Newchwang for general use.

Approximate position, Custom House flagstaff on chart No. 2894, lat. 40° 43′ 25″ N., long. 122° 15′ 55° E.

(Variation 4º Westerly in 1906.)

This Notice affects the following Admiralty Chart: - Liau river, No. 2894: also Lis! of Time Signals, 1904, page 78; and China Sea Directory, vol. III, 1904, pages 645, 649.

EASTERN ARCHIPELAGO -JAVA, NORTH COAST.

Batavia roads, Vader Smit shoal-Depth over.

No. 255 (first publication).—With reference to Notice to Mariners, No. 202, dated 7th June 1906, issued by this office, the British Admiralty has given further notice (No. 614 of 1906) that the undermentioned coral shoals in Batavia roads are believed to be identical with Vader Smit shoal, which is shown on the chart as having a depth of 3 fathoms over it :-

(a) The shoal, about 65 yards in extent, with a depth of 7 feet over it, situated in approximately lat. 6° 4′ 0″ S., long. 106° 51′ 15″ E.
(b) The shoal, about 45 yards in extent, with a depth of 11 feet, situated in approximately lat. 6° 4′ 5″ S., long. 106° 51′ 5″ E.

The 3-fathom patch has therefore been erased from the Admiralty chart.

Approximate position, lat. 6° 4' S., long. 106° 51' E.

This Notice affects the following Admiralty Charts :- Sunda strait, No. 2056; Batavia road, No. 933: also Eastern Archipelago, Part II, 1904, pages 88, 89.

INDIA, WEST-BOMBAY (GOA) COAST.

Ayuada light-Character altered.

No. 256 (first publication).—The British Admiralty has given notice (No. 615 of 1906) that the character of the light at Aguada fort, Goa, would be altered from white fixed to white group flashing, showing groups of three flashes every ten seconds, thus:—flash, half a second; eclipse, one and-a-half seconds; flash, half a second; eclipse, one and-a-half seconds; flash half a second; eclipse, five and-a-half seconds: it would be visible in clear weather from a distance of 22 miles. distance of 23 miles. Approximate position, lat. 15° 29% N., long. 73° 46' E.

This Notice affects the following Admiralty Charts: - Indian Ocean, No. 748b; Karachi to Vengurla, No. 826; Vengurla to cape Comorin, No. 827; Viziadrug to Cobhin, No. 2787; Arter river to cape Ramas, No. 740; Murmagao and Goa roadsteads, No. 492: also List of Lights, Part VI, 1906, No. 257; and West Coast of Hindustan Pilot, 1898, page 164.

CHINA SEA-SOUTHERN PORTION.

St. Esprit islands - Non-existence of discoloured water south-westward.

No. 257 (first publication).—The British Admiralty has given notice (No. 616 of 1906) that a careful examination has been made of the area in the neighbourhood of the position, where discoloured water was reported to have been seen, about 25 miles to the south-westward of St. Esprit islands without finding any indication of dangers.

As this discoloured water was merely observed by the Master of the German ship Rebecca in 1875 without any means being taken to ascertain if it was shoal water or not, the words "Discoloured water" have been erased from the charts.

Approximate position, lat. 0° 30' N., long. 106° 38' E.

This Notice affects the following Admiralty Charts: - Eastern Archipelago, No. 941a; China Sea, No. 2660a: also China Sea Directory, vol. II, 1899, page 49.

> St. L. S. WARDEN, COMMDR., R.I.M., Port Officer of Calcutta.

The 13th July 1903.

INDIA, WEST-BOMBAY COAST.

Bomlay harbour-Ballard Pier extension works-Buoy removed.

No. 246 (second publication). - With reference to Notice to Mariners No. 244, dated 28th June 1906, issued by this office, the Bombay Government has given further notice (No. 68 of 1906) that the obstruction at the Ballard Pier extension works has now been raised and the buoy marking it removed.

This Notice affects Admiralty Chart: -Port of Bombay, No. 655; also West Coast of Hindustan Vilot, 4th Edition, 1898, page 201; and Supplement 1903, page 15.

EASTERN ARCHIPELAGO-JAVA-MADURA STRAIT.

Meinderts reef intended light - Amended description.

No. 247 (second publication).—With reference to Notice to Mariners No. 159, dated 12th May 1906, issued by this office, the British Admiralty has given further notice (No. 563 of 1906) that the period of system of the intended white occulting light on Meinderts reef will be ten seconds, thus:—light, five seconds, eclipse, five seconds, and not twenty seconds as previously announced.

Approximate position, lat. 7° 401' S., long. 114° 26' E.

Further Notice will be given.

This Notice affects the following Admiralty Charts: - Eastern Archipelago, No. 941b; Java island, No. 1654: Also List of Lights, Part VI, 1906, No. 506; and Eastern Archi-velago, Part II, 1904, page 140.

CHINA-CANTON RIVER-BOCA TIGRIS.

Chain rook-Light intended.

No. 248 (second publication).—The British Admiralty has given notice (No. 575 of 1906) that the Chinese Government intend, probably during next September, to exhibit a red fixed dioptric light of the 6th order, elevated 33 feet above high water, and visible from a distance of 7 miles, from a red brick tower, 30 feet high, surmounted by a pedestal lantern now in course of erection on Chain rock, Boca Tigris, Uanton river.

Approximate position, lat. 22° 47½ N., long. 113° 37½ E.

Further Notice will be given when received.

This Notice affects the following Admiralty Charts: - Canton river, No. 2562; Lintin bar to Tiger island, No. 1741: Also List of Lights, Part VI, 1906, page 123; and China Sea Directory, vol. III, 1904, page 92.

PACIFIC OCEAN-ELLICE GROUP.

Nanomana island-Bank reported northward.

No. 249 (second publication).—The British Admiralty has given notice (No. 586 of 1906) of the existence of a bank, with a depth of 7 fathoms over it, situated at a distance of 2 miles N. 3° E. from the north point of Nanomana island, Ellice islands. This bank, on which rollers were observed, is about half a mile long in a north-easterly and south-westerly direction and two cables broad. It has been placed on the charts in approximately lat. 6° 15½ S., long. 176° 20½ E., and marked P.D.

(Variation 9° Easterly in 1906.)

This Notice affects the following Admiralty Charts: —Ellice islands to Phanix islands, No. 1830; plan of Nanomana island on chart No. 766: Also Pacific Islands, vol. II, 1900, page 260.

CEYLON, WEST COAST-COLOMBO.

Standard time adopted - Alteration in time of making Time Signal.

No. 250 (second publication).—The British Admiralty has given notice (No. 587 of 1906) that Standard time of India, that is of the meridian of 82° 30′ East longitude, has been adopted in Ceylon; the time signal at the Harbour Master's Office at Colombo will therefore in future be made at 4^h 15^m 0^s and at 20^h 15^m 0^s Standard Mean time, corresponding respectively to 22^h 45^m 0^s and 14^h 45^m 0^s Greenwich Mean time. In other respects this time signal is made as described in the Admiralty List of Time Signals, 1904, No. 28.

Approximate position, lat. 6° 56′ 34" N., long. 79° 50′ 34" E.

This Notice affects the following Admiralty Charts:—Ceylon, south coast, No. 813; Colombo harbour, No. 914: Also List of Time Signals, 1904, page 18, No. 28; West Coast of Hindustan Pilot, 1898, page 98; Supplement, 1903, page 5; Bay of Bengal Pilot, 1901, page 75; and Supplement, 1903, page 2.

The 6th July 1906.

EASTERN ARCHIPELAGO - MALACCA STRAIT - PULO PENANG.

Pulo Rimau light - Temporary alteration.

No. 241 (third publication).-With reference to Notice to Mariners No. 84, dated 3rd March 1905, issued by this-office, the British Admiralty has given further notice (No. 548 of 1906) that further information, dated 9th April 1906, has been received from the Harbour Master at Penang that Pulo Riman light (red occulting) will, in consequence of an aecident, temporarily show white instead of red from the bearing of N. 59° E., through east, to S. 74° E.

Approximate position, lat. 5° 14' N., long. 100° 164' E.

(Variation 2º Easterly in 1906.)

This Notice temporarily affects the following Admiralty Charts: — Acheh head to Tyingkok bay, No. 2760; Butang group to Pulo Berhala, No. 793; Penang harbour, No. 1366; Malacca strait. No. 1355; also, List of Lights, Part VI, 1906, No. 408; and China Sea Directory, Vol. I, 1896, page 147.

AUSTRALIA SOUTH-PORT ADELAIDE RIVER.

Light beacons under construction.

No. 242 (third publication).—The British Admiralty has given Notice (No. 552 of 1906) that, in connection with the erection of light beacons abreast beacons Nos. 3 to 9 on the north and east sides of the channel, Port Adelaide river, a barge exhibiting an anchor light at night will be moored in the stream during the progress of the work, which will be commenced from No. 9 beacon. A green fixed light will be exhibited from each beacon when completed.

Approximate position, No. 9 beacon, lat. 3±° 47½′ S., long. 138° 31′ E.

Further notice will be given when these beacons are completed.

This Notice affects the following Admiralty Chart :- Port Adelaide, No. 1750; also, List of Lights, Part VI, 1906, page 206; and Australia Directory, Vol. I, 1897, page 332.

AUSTRALIA, SOUTH-GULF OF ST. VINCENT.

Port Adelaide river-Extra Beacons placed-Amended Sairing Directions.

No. 243 (third publication).—With reference to Notice to Mariners No. 62, dated 10th February 1906, issued by this office, the Secretary, Marine Board, Port Adelaide, has given further notice (No. 11 of 1906) that eight extra beacons have been placed on the north and east side of the cuiting. The beacons are painted black and the lanterns green, from which a green light showing towards the cutting is exhibited; a white light is also exhibited from the back of each lantern showing towards the shore.

All the green light beacons are numbered from the first or seaward beacon with the letter "G" added as follows:—No. 0G, being outside beacon; No. 1G, near the reflecting beacon; No. 2G, opposite the old boat channel. This light indicates the turning point from No. 2 (red) lead towards No. 3. All the others, that is, Nos. 3G to 9G, both inclusive, are placed opposite the corresponding numbers of the white light beacons on the other side of

the cutting.

All the single light beacons are placed about 15 feet back from the cutting, and painted red to starboard and black to port. The lights are white to starboard and green to port from seaward.

The red light on the pile beacon south of No. 3 being no longer required will, on and after the 1st June 1906, be discontinued.

In consequence of the above alterations the sailing directions have been amended to read as follows :-

Sairing Directions.

By night.—In approaching the anchorage, vessels of deep draught should not bring the white light on the old structure to bear north of N. E. by E. in order to avoid the four-fathom patch, which bears N. W. half N. from the light on Wonga Shoal; then get No. 1 lead (which consists of two red lights vertical 10 feet apart, and two white lights vertical 11 feet 9 inches apart) in line; keep these in line passing between the occulting light on the red buoy and the outer green light on the north bank, also between the other green lights on the north bank and the white lights on the revetment mound.

Steer on the same line with the two red lights of No. 2 lead and the same line with the two red lights of No. 2 lead and the same line with the two red lights of No. 2 lead and the same line with the two red lights of No. 2 lead and the same line with the two red lights of No. 2 lead and the same line with the two red lights of No. 2 lead and the same line with the two red lights of No. 2 lead and the same line with the two red lights of No. 2 lead and the same line with the two red lights of No. 2 lead and the same line with the two red lights of No. 2 lead and the same line with the same line with

Steer on the same line until the two red lights of No. 2 lead are coming on; then steer with them in line until abreast of No. 2G beacon; then direct the course to pass between No. 3 and No. 3G beacons; and so on from beacon to beacon round the point until No. 9 is reached. From a safe distance off No. 9 the lights of No. 10 lead will be seen; keep them in line until the red light is about a quarter of a point open to the right of the white light of No. 11 lead; then gradually alter the course to bring the lights of No. 11 lead in line; keep them in line (a sharp look out being kept for the mooring buoys on the starboard hand) until the lights of No. 12 lead are seen coming into line; proceed as before by altering the course before the lights are on with each other. The same applies in the change from No. 12 to No. 13 lead. When the lights on the wherever are seen overlap out off I off Point altering the course before the lights on the wherever are seen overlap out off I off Point altering the course before the lights on the wherever are seen overlap out off I off Point altering the course the lights on the wherever are seen overlap out off I off Point altering the course the lights of the wherever are seen overlap out off I off Point altering the course the lights of the white lights of the white lights of the white lights of the white light of the whit to No. 13 lead. When the lights on the wharves are seen opening out off Luff Point, alter the course so as to round the point at a safe distance, and then up the centre of the channel,

looking out for the mooring buoys on the starboard hand.

In going outwards the directions are just the opposite to those given for those coming inwards; but in such case, in changing from one lead to another, the course should be gradually altered when abreast of the low (red) beacon of each lead, excepting No. 2 lead. In this case, when abreast of No. 3 beacon, gradually alter the course to a safe distance of In this case, when abreast of No. 3 beacon, gradually alter the course to a safe distance off No. 2G until the two red lights of No. 2 lead are in line, then preceed outwards with

No. 2 lead in line.

By day.—The directions by day are the same as by night, merely substituting the beacons for the lights.

This affects Admiralty Charts 2389A and B, 1750 and 1752.

During the progress of the work at the Light's Passage Harbour Works, masters of vessels exempt from pilotage may, if they so desire, avail themselves of the services of a pilot to assist them in passing such works, either in or out, at one-half the usual rates.

If the usual exemption flag is not hoisted, it will be taken as a signal that a pilot is required. At night if a pilot is required the usual signal for a pilot should be shown.

N.B.—Owing to the nature of the work in progress, this notice may require to be amended from time to time, and therefore should be treated as tentative only.

INDIA, WEST-BOMBAY COAST.

Bombay hurbour-Ballard pier-New extension works marked by buoy.

No. 244 (third publication).—The Bombay Government has given notice (No. 65 of 1906) that several blocks of concrete have been washed off the works at the East end of the Ballard Pier Extension somewhat obstructing the passage to the old steps.

2. A small black painted conical Buoy will be moored to mark the end of this obstruction which have been supported by the state of the sta

tion which has a depth on it of 12 feet at Low Water.

3. Vessels approaching this draught should not pass between the Buoy and end of the new Pier Extension works.

This Notice affects Admiralty Chart: -Port of Bombay, No. 655; also West Coast of Hindustan Pilot, 4th edition, 1898, page 201; and Supplement, 1903, page 15.

INDIA, WEST-BOMBAY (GOA) COAST.

Din lights - Their non-exhibition dureing certain months.

No. 245 (third publication).—The following Notice to Mariners issued by the Bombay Government (No. 66 of 1906) is republished:—

Information, dated 17th May 1906, has been received from the Captain of the Port that the following lights at Diu, viz., the Red fixed light of the Forte de Mar and the White fixed light on the Castle Culwark foundation, will not be exhibited during the months of June, July and August 1906.

This Notice affects the following Admiralty Charts:—Gulf of Kutch to Visiadrug (plan Diu harbour), No. 2736; Dwarka Point to Diu Head, No. 1420; and Diu Head to Goapnath Point, No. 50; and West Coast of Hindustan Pilot, fourth edition, 1898, page 258, and Supplement 1903, page 16; also Admiralty Light List, Part VI, 1906, Nos. 217 and 218, and List of Light-houses and Light-vessels in British India, Nos. 217 and 218.

The 28th June 1906.

A. S. Balfour, Lieur., R.I.M., Port Officer of Calcutta. pro. tem.



APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, JULY 25, 1906.

NOTICES TO MARINERS.

THE following Notices are published for general information.

CALCUTTA, the 20th July 1906.

W. A. INGLIS, Secy. to the Gort. of Bengal.

BAY OF BENGAL-CHITTAGONG COAST.

Kurnafuli river - Depth of water found in the channels.

No. 258 (first publication).—The Port Officer, Chittagong, has given notice that the following depth of water was found in the channels by soundings taken on the 10th July and reduced to zero:—

2010						
Track No. 1—Outer bar— Disc on diamond		Liver on the second	Egrandig Egrandig	Fт. 13	21/20/2019/20	
Track No. 2—Inner bar— Disc on diamond Batten beacon on pillar				12 12		
Track No. 3— Triangle on cross and ball	ortorium) j			19		
Track No. 4-Guptakhally cr				16	0	

CHINA, EAST COAST-CHUSAN ARCHIPELAGO.

Tongting island-Light-house building-Provisional light.

No. 259 (first publication).—The British Admiralty has given notice (No. 622 of 1906) that a light-house from which a light of the fourth order showing groups of four schite flashes will be exhibited is in course of erection on Tongting island, Chusan Archipelago.

On or about 1st May a provisional white group occulting light, showing groups of four eolipses every thirty seconds, thus:—light, sixteen seconds; eclipse, two seconds; light, two seconds; eclipse, two seconds; light, two seconds; eclipse, two seconds; light, two seconds; eclipse, two seconds; would be exhibited from the summit of the island at an

elevation of 180 feet above high water, and visible in clear weather from a distance of 10 miles, the light being of the sixth order.

A fog signal will also be established on this island.

Approximate position on chart No. 1429, lat. 29° 513′ N., long. 122° 354′ E.

Further Notice will be given when this light has been established.

This Notice affects the following Admiralty Charts: - Amoy to Nagasaki, No. 2412; Hong Kong to Liau tung gulf, No. 1262; Kue shan islands to the Yang tse, No. 1199; Nimrod sound to Yung river, No. 1429: Also List of Lights, Part VI, 1906, page 129; and China Sea Directory, vol. III, 1904, page 334.

AFRICA, NORTH-EAST-GULF OF ADEN.

Aden anchorage—Buoy to be established and position of Marbut shoal light-ressel to be altered.

No. 260 (first publication).—The Bombay Government has given notice (No. 71 of 1906) that on the 26th July a white Nun Buoy with a black top showing a green light at night will be moored on the following bearings:-

Clock Tower	UNILS U	I was all the had the	•••	889° 00E
Marbut flagstaff			•••	871° 30E
Residency flagstaff	F.,W	•••		834° 00E
Signal staff	Carlo Ca			866° 0'E

and that Marbut Light-Vessel will be moved S80° W, a distance of 80 yards, to a position on the following bearings :-

Clock Tower				N81° 00E
Marbut flagstaff		•••	•••	N85° 00E
Residency flagstaff	100m, 190, 100 mm 1 mm			846° 00E
Signal staff		5.5pt	1 2	880° 30E

All bearings are true.

This notice affects the following Admiralty Charts:—Gulf of Aden, Sheet II, Western portion, No. 6C; Aden and adjacent bays. Ad.n Anchorage, No. 7; Red Sea, Sheet V, No. 8E; and Arabian Sea, No. 1012; and Red Sea and Gulf of Aden Pilot, fifth edition, 1900, pages 349 and 350, and Supplement 1904 relating to Red Sea and Gulf of Aden Pilot, page 39; also Admiralty List of Lights, Part VI, 1906, No. 130; and Light-Houses and Light-Vessels in British India, 1905, No. 130.

BAY OF BENGAL-BURMA COAST.

Arakan river-Outer bar shoaling.

No. 251 (second publication) .- The British Admiralty has given notice (No. 592 of 1906) that there is considerably less water than shown on the chart on the outer bar of the Arakan river, in the approach to Akyab. A note to this effect has been placed on the charts.

Approximate position, lat. 20° 3′ N., long. 92° 54′ E.

This Notice affects the following Admiralty Charts:—Elephant Point to Cheduba strait, No. 821; Arakan river with plan of Akyab, No. 1884: also Bay of Bengal Pilot, 1901, page 256.

AFRICA, SOUTH-CAPE COLONY.

Immigration flag-Description and use of.

No. 252 (second publication).—The British Admiralty has given notice (No. 595 of 1906) that a yellow flag having a black ball in the centre has been adopted as the Immigration flag at all ports within the colony. This flag (hoisted at the stay) by vessels arriving in port denotes that the examination of passengers by the Immigration Officer is being carried out, and that no person not provided with a permit, or duly authorised by the Immigration Office, is, under penalty, allowed on board that vessel.

This Notice affects the following Admiralty Publications: - Africa Pilot, Part II, 1901, page 34; and Africa Pilot, Part III, 1905, page 17.

JAPAN-NAIKAI.

Akashi no seto-Wreck of a sunken vessel.

No. 253 (second publication).—The British Admiralty has given notice (No. 600 of 1906) that the wreck of a vessel lies sunk in Akashi no seto, in a position from which Yesaki light bears S. 40° W., distant 2 miles and Hira iso light S. 67° E.

Approximate position, lat. 34° 38' N., long. 135° 1' E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Chart : -- Akashi no seto No. 93: also Sailing Directions for Japan, &c., 1904, page 426.

CHINA, NORTH-LIAU RIVER.

The property of the second

Newchwang-Beacon removed in approach-Time signal altered.

No. 254 (second publication).—The British Admiralty has given notice (No. 601 of 1906) that the surveying beacon (new beacon) on the eastern bank of Liau river, formerly situated at a distance of 3 cables S. 40° E. from Nodding Tommy beacon, is no longer in existence.

Also that the time-ball at the Custom House flagstaff, Newchwang, is dropped every day at 0h 0m 0s mean time of the 120° of East longitude, or 16h 0m 0s G.M.T., instead of on Saturdays at 0h 0m 0s Local Mean time as formerly. Further particulars in regard to this signal are not given, but it is presumed that Standard time of the 120th meridian of East longitude has been adopted at Newchwang for general use.

Approximate position, Custom House flagstaff on chart No. 2894, lat. 40° 43′ 25″ N., long. 122° 15′ 55″ E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Chart: Liau river, No. 2894: also Lis! of Time Signals, 1904, page 78; and China Sea Directory, vol. III, 1904, pages 645, 649.

EASTERN ARCHIPELAGO-JAVA, NORTH COAST.

Batavia roads, Vader Smit shoal-Depth over.

No. 255 (second publication).—With reference to Notice to Mariners, No. 202, dated 7th June 1906, issued by this office, the British Admiralty has given further notice (No. 614 of 1906) that the undermentioned coral shoals in Batavia roads are believed to be identical with Vader Smit shoal, which is shown on the chart as having a depth of 3 fathoms over it :-

- (a) The shoal, about 65 yards in extent, with a depth of 7 feet over it, situated in approximately lat. 6° 4′ 0″ S., long. 106° 51′ 15″ E.
- (b) The shoal, about 45 yards in extent, with a depth of 11 feet, situated in approximately lat. 6° 4′ 5" S., long. 106° 51′ 5" E.

The 3-fathom patch has therefore been erased from the Admiralty chart.

Approximate position, lat. 6° 4' S., long. 106° 51' E.

This Notice affects the following Admiralty Charts :- Sunda strait, No. 2056; Batavia road, No. 933: also Eastern Archipelago, Part II, 1904, pages 88, 89.

INDIA, WEST-BOMBAY (GOA) COAST.

Aguada light-Character altered.

No. 256 (second publication).—The British Admiralty has given notice (No. 615 of 1906) that the character of the light at Aguada fort, Goa, would be altered from white fixed to white group flashing, showing groups of three flashes every ten seconds, thus:—flash, haif a second; eclipse, one and-a-half seconds; flash, half a second; eclipse, one and-a-half seconds; flash half a second; eclipse, five and-a-half seconds: it would be visible in clear weather from a distance; second; eclipse, five and-a-half seconds: distance of 23 miles.

Approximate position, lat. 15° 291' N., long. 73° 46' E.

This Notice affects the following Admiralty Charts :- Indian Ocean, No. 748b; Karachi to Vengurla, No. 826; Vengurla to cape Comorin, No. 827; Viziadrug to Cobhin, No. 2737; Achra river to cape Ramas, No. 740; Murmagao and Goa roadsteads, No. 492: also List of Lights, Part VI, 1906, No. 257; and West Coast of Hindustan Pilot, 1898, page 164.

CHINA SEA-Southern Portion.

St. Esprit islands-Non-existence of discoloured water south-westward.

No. 257 (second publication).—The British Admiralty has given notice (No. 616 of 1906) that a careful examination has been made of the area in the neighbourhood of the position, where discoloured water was reported to have been seen, about 25 miles to the south-westward of St. Esprit islands without finding any indication of dangers.

As this discoloured water was merely observed by the Master of the German ship Rebecca in 1875 without any means being taken to ascertain if it was shoal water or not, the words "Discoloured water" have been erased from the charts.

Approximate position, lat. 0° 30' N., long. 106° 38' E.

This Notice affects the following Admiralty Charts:—Eastern Archipelago, No. 941a; China Sea, No. 2660a: also China Sea Directory, vol. II, 1899, page 49.

ST. L. S. WARDEN, COMMDR., R.I.M., Port Officer of Oalcutta.

The 13th July 1906.

INDIA, WEST-BOMBAY COAST.

Bombay harbour—Ballard Pier extension works—Buoy removed.

No. 246 (third publication). - With reference to Notice to Mariners No. 244, dated 28th June 1906, issued by this office, the Bombay Government has given further notice (No. 68 of 1906) that the obstruction at the Ballard Pier extension works has now been raised and the buoy marking it removed.

This Notice affects Admiralty Chart:—Port of Bombay, No. 655; also West Coast of Hindustan Pilot, 4th Edition, 1898, page 201; and Supplement 1903, page 15.

EASTERN ARCHIPELAGO-JAVA-MADURA STRAIT.

Meinderts reef intended light-Amended description.

No. 247 (third publication).—With reference to Notice to Mariners No. 159, dated 12th May 1906, issued by this office, the British Admiralty has given further notice (No. 563 of 1906) that the period of system of the intended white occulting light on Meinderts reef will be ten seconds, thus:—light, five seconds, eclipse, five seconds, and not twenty seconds as reprinted to the seconds. previously announced.

Approximate position, lat. 7° 40½ S., long. 114° 26' E.

Further Notice will be given.

This Notice affects the following Admiralty Charts:—Eastern Archipelago, No. 941b; Java island, No. 1654: Also List of Lights, Part VI, 1906, No. 506; and Eastern Archipelago, Part II, 1904, page 140.

CHINA-CANTON RIVER-BOCA TIGRIS.

Chain rock-Light intended.

No. 248 (third publication).—The British Admiralty has given notice (No. 575 of 1906) that the Chinese Government intend, probably during next September, to exhibit a red fixed dioptric light of the 6th order, elevated 33 feet above high water, and visible from a distance of 7 miles, from a red brick tower, 30 feet high, surmounted by a pedestal lantern now in course of erection on Chain rock, Boca Tigris, Canton river.

Approximate position, lat. 22° 47½ N., long. 113° 37¼ E.

Further Notice will be given when received.

This Notice affects the following Admiralty Charts:—Canton river, No. 2562; Lintin bar to Tiger island, No. 1741: Also List of Lights, Part VI, 1906, page 123; and China Sea Directory, vol. III, 1904, page 92.

PACIFIC OCEAN-ELLICE GROUP.

Nanomana island-Bank reported northward.

No. 249 (third publication).—The British Admiralty has given notice (No. 586 of 1906) of the existence of a bank, with a depth of 7 fathoms over it, situated at a distance of 2 miles N. 3° E. from the north point of Nanomana island, Ellice islands. This bank, on which rollers were observed, is about half a mile long in a north-easterly and south-westerly direction and two cables broad. It has been placed on the charts in approximately lat. 6° 15½ S., long. 176° 20½ E., and marked P.D.

(Variation 9° Easterly in 1906.)

This Notice affects the following Admiralty Charts:—Ellice islands to Phanix islands, No. 1830; plan of Nanomana island on chart No. 766: Also Pacific Islands, vol. II, 1900, page 260.

CEYLON, WEST COAST-COLOMBO.

Standard time adopted-Alteration in time of making Time Signal.

No. 250 (third publication).—The British Admiralty has given notice (No. 587 of 1906) that Standard time of India, that is of the meridian of 82° 30' East longitude, has been adopted in Ceylon; the time signal at the Harbour Master's Office at Colombo will therefore in future be made at 4h 15m 0s and at 20h 15m 0s Standard Mean time, corresponding respectively to 22h 45m 0s and 14h 45m 0s Greenwich Mean time. In other respects this time signal is made as described in the Admiralty List of Time Signals, 1904, No. 28.

Approximate position, lat. 6° 56′ 34" N., long. 79° 50′ 34" E.

This Notice affects the following Admiralty Charts:—Ceylon, south coast, No. 813; Colombo harbour, No. 914: Also List of Time Signals, 1904, page 18, No. 28; West Coast of Hindustan Pilot, 1898, page 98; Supplement, 1903, page 5; Bay of Bengal Pilot, 1901, page 75; and Supplement, 1903, page 2.

The 6th July 1906.

A. S. BALFOUR, LIEUT., R.I.M., Port Officer of Calcutta. pro. tem.



APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, AUGUST 1, 1906.

NOTICES TO MARINERS.

THE following Notices are published for general information.

CALCUTTA, the 25th July 1906.

W. A. INGLIS, Secy. to the Gort. of Bengal.

INDIA, WEST-BOMBAY COAST.

Caution-A sunken pilot-schooner near the Outer light-vessel.

No. 261 (first publication).—A telegraphic communication has been received from the Port Officer, Bombay, stating that one of the pilot's schooners lies sunk about N.-W. of the Outer light-vessel, distant half-a-mile; masts visible at low water. Mariners are hereby warned.

The 25th July 1906.

AUSTRALIA, WEST-FREMANTLE APPROACH.

Rottnest island-Fog explosive established.

No. 262 (first publication).—The British Admiralty has given notice (No 641 of 1906) that, on and after 1st June 1906, a fog-explosive signal, giving during thick or foggy weather one report every fifteen minutes, would be established near the centre of Rottnest

Approximate position, lat. 32° 0′ S., long. 115° 31′ E.

Note.—The cautionary remarks respecting fog signals given in the introductory remarks to all parts of the Admiralty Lists of Lights should be carefully studied.

This Notice affects the following Admiralty Charts:—Campion bay to cape Naturaliste, No. 1033: Rottnest island to Warnbro' sound, No. 1058: also List of Lights, Part VI, 1906, No. 1195; and Australia Directory, Vol. III, 1905, page 309.

JAPAN, SOUTH COAST-GULF OF TOKIO ENTRANCE.

Uraga channel-Buoy marking submarine mines.

No. 263 (first publication).—The British Admiralty has given Notice (No. 646 of 1906) that a white cylindrical buoy has been moored at a distance of 5 to cables S. 60° E. from Ashika jima beacon to mark the outer end of a number of mines which have been submerged for experiment in Uraga channel.

Approximate position, lat. 35° 12½' N., long. 139° 44' E.

The mines will remain in position until January 1907, and Mariners are warned that they should on no account attempt to pass westward of the buoy marking them.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admirally Chart: - Gulf of Tokyo, No. 2657: Also, Sailing Directions for Japan, &c., 1904, pages 364, 369.

KOREA, WEST COAST-SALEE RIVER APPROACH.

Toku somu (Baker island) - Light-house construction.

No. 264 (first publication).—The British Admiralty has given Notice (No. 647 of 1906) that a lighthouse is under construction on Toku somu (Baker island).

Approximate position, lat. 36° 39' N., long. 126° 01' E.

This Notice affects the following Admiralty Charts:—Makau group to Clifford islands, No. 913; approaches to Seoul, No. 1258: Also, List of Lights, part VI., 1906, No. 916; and Sailing Directions for Korea, &c., 1904, page 51.

KOREA, SOUTH COAST.

Uto (Beaufort island) - Ari soms (Sentinel island), and Uru Saki. - Lights established.

No. 265 (first publication).-The British Admiralty has given notice (No. 648 of 1906) that the undermentioned lights have been established off the south coast of Korea, in the following positions :-

Uto or BEAUFORT ISLAND.

A white fixed light (unwatched), elevated 442 feet above high water, and visible in clear weather from a distance of 8 miles from the bearing of S. 66° E., through south and west, to N. 19° E., has been established in a white wooden building, 20 feet high, erected on the eastern end of the island.

Approximate position, lat. 33° 29½' N., long. 126° 58' E.

ARI SOMU OR SENTINEL ISLAND.

A white fixed light, elevated 382 feet above high water, has been established in a white wooden building, 32 feet high, erected on the summit of Ari somu.

Aproximate position lat. 34° 321' N., long. 128" 44' E.

URU SAKI, north-east point of Commemoration bay.

A white fixed light (unwatched), elevated 97 feet above high water, and visible in clear weather from a distance of 8 miles from the bearing of S. 15° W., through west and north, to N. 50° E., has been established in a white wooden building erected on Uru saki, north-east point of cape Tikmenev.

It has been placed on the chart in approximately lat. 35° 30' N., long. 129° 30½' E., and the position marked Uru saki.

(Variation 4° Westerly in 1906.)

This Natice affects the following Admiralty Charts: - Nipon, Kiusiu, &c., No. 2347; Shangtung to Nagasaki, No. 3480; Korean archipelago, No. 104; Western coasts of Kiusiu, &c., No. 358: Also, List of lights, part VI, 1906, pages 151, 153; and Sailing Directions for Japan Korea, &c., 1904, pages 89, 104 130.

KOREA, EAST COAST-GENSAN.

Korumappo (Muraveva Point) - Light established.

that a red fixed light elevated 187 feet above high water and visible from the bearing of N. 27° E., through east and south, to N. 62° W., has been established in a white wooden building, 20 feet high, erected on the high land of Korumappo or Muraveva Point in the approach to Gensan. No. 266 (first publication).—The British Admiralty has given notice (No. 649 of 1906)

Approximate position, lat. 39° 12½' N., long. 127° 284' E.

(Variation 5° Westerly in 1906.)

This Notice affects the following Admiralty Chart:—Cape Duroch to Linden Point, No. 1316; port Lazaref, No. 3037: also List of Lights, Part VI, 1906, page 153, and Sailing Directions for Japan and Korea, &c., 1904, page 136.

AUSTRALIA, EAST COAST-QUEENSLAND.

Brisbane river-Quarries Reach channel-Altered lights and buoys moved.

No. 267 (first publication).—The British Admiralty has given notice (No. 653 of 1906) that on and after June 19th the newly-dredged channel through Quarries reach would be open, the Hamilton reach channel having been extended to the eastward to connect with it

The leading beacons used for the old channel would be moved to suit the new channel, those formerly situated at a distace of 21 cables westward from Colmslie pontoon head being shifted $2\frac{c}{16}$ cables S. 66° E. from their former positions, their relative positions being altered to suit the direction of the new channel, viz., S. 67° W and N. 67° E. from each other; these two beacons or their lights in line S. 67° W. lead through the newly-dredged channel.

Leading beacons will also be established, one on Eagle Farm flats training wall at a distance of 1½ cables N 14° W. from Bridge Point, and a rear beacon approximately 4 cables No. 67° E. from the front beacon, to assist in passing through the new Quarries reach

channel.

These two beacons in line N. 67° E. lead through the new channel.

The red buoy formerly marking the turning point of the Hamilton reach channel and Quarries reach old channel will be moored 2½ cables S. 80° E. to mark the turning point in the new channel.

Approximate position, Colmelie pontoon, lat. 27° 27' S., long 153° 5' E.

The positions of the above beacons and buoy are approximate, their exact positions not having been given.

(Variation 9° Easterly in 1906.)

This Notice affects the following Admiralty Chart :- Brisbane river, No. 1674; also List of Lights, Part VI, 1906, page 239, No. 1434, Australia Directory, vol. II, 1898, pages 141, 142; and Supplement, 1900, page 7.

CHINA-YANG TSE KIANG, NORTH CHANNEL.

Drinkwater Point-Light and light-buoy to be replaced by light-vessel.

No. 268 (first publication).—The British Admiralty has given notice (No. 654 of 1906) that the Chinese Government intend, probably on July 1st next, to establish a light-vessel (without a crew), exhibiting a white occulting dioptric light every ten seconds, thus:—light, five seconds; eclipse, five seconds, in a position about 3 miles N. 83° W., from Drinkwater Point light and bell-buoy; the light, which will be of the 4th order, will be elevated 35 feet above the sea, and visible in clear weather from a distance of 11 miles; the vessel will be iron and painted red, having an iron column surmounted by a lantern. A bell, rung by the motion of the vessel, will be suspended on board.

Approximate position, lat. 34° 24½' N., long. 121° 56½' E.

On the establishment of the above light-vessel, the white group flashing light on Drinkwater Point, and Drinkwater Point light and bell-buoy will be discontinued. Further Notice will be given.

(Variation 2º Westerly in 1906.)

This Notice affects the following Admiralty Charts:—Kueshan islands to Yang tse Kiang, No. 1199; approaches to the Yang tse Kiang, No. 1602: also List of Lights, Part VI, 1906, page 133, No. 813; and China Sea Directory, vol. III, 1904, page 402.

The 27th July 1906.

BAY OF BENGAL-CHITTAGONG COAST.

Kurnafuli river - Depth of water found in the channels.

No. 258 (second publication).-The Port Officer, Chittagong, has given notice that the following depth of water was found in the channels by soundings taken on the 10th July

duoda to zoto .				
Track No. 1—Outer bar— Dise on diamond		 	 Fт. 13	
Track No. 2-Inner bar-			12	0
Disc on diamond Batten beacon on pillar		 	 12	0
Track No. 3— Triangle on cross and ball		 	 19	0
Track No. 4-Guptakhally cr Tripod on diamond	ossing—	 	 16	0

CHINA, EAST COAST-CHUSAN ARCHIPELAGO.

Tongting island-Light-house building-Provisional light.

No. 259 (second publication).—The British Admiralty has given notice (No. 622 of 1906) that a light-house from which a light of the fourth order showing groups of four white flashes will be exhibited is in course of erection on Tongting island, Chusan Archi-

pelago.

On or about 1st May a provisional white group occulting light, showing groups of four eclipses every thirty seconds, thus:—light, sixteen seconds; eclipse, two seconds; light, two seconds; eclipse, two seconds; light, two seconds; eclipse, two seconds; light, two seconds; eclipse, two seconds, would be exhibited from the summit of the island at an elevation of 180 feet above high water, and visible in clear weather from a distance of 10 miles, the light being of the sixth order.

A fog signal will also be established on this island.

Approximate position on chart No. 1429, lat. 29° 51% N., long. 122° 35% E.

Further Notice will be given when this light has been established.

This Notice affects the following Admiralty Charts:—Amoy to Nagasaki, No. 2412; Hong Kong to Liau tung gulf, No. 1262; Kue shan islands to the Yang tse, No. 1199; Nimrod sound to Yung river, No. 1429: Also List of Lights, Part VI, 1906, page 129; and China Sea Directory, vol. III, 1904, page 334.

AFRICA, NORTH-EAST-GULF OF ADEN.

Aden anchorage—Buoy to be established and position of Marbut shoal light-vessel to be altered.

No. 260 (second publication).—The Bombay Government has given notice (No. 71 of 1906) that on the 26th July a white Nun Buoy with a black top showing a green light at night will be moored on the following bearings:—

Clock Tower	***		 889° 00E
Marbut flagstaff	A POLICE OF SERVICE	W	 871° 30E
Residency flagstaff			S34° 00E
Signal staff			866° 0'E

and that Marbut Light-Vessel will be moved S80° W, a distance of 80 yards, to a position on the following bearings:—

Clock Tower				N81° 00E
Marbut flagstaff		•••	•••	N85° 00E
Residency flagstaff	•••	•••	***	S46° 00E
Signal staff	•••	•••	•••	S80° 30E

All bearings are true.

This notice affects the following Admiralty Charts:—Gulf of Aden, Sheet II, Western portion, No. 6C; Aden and adjacent bays. Aden Anchorage, No. 7; Red Sea, Sheet V, No. 8E; and Arabian Sea, No. 1012; and Red Sea and Gulf of Aden Pilot, fifth edition, 1900, pages 349 and 350, and Supplement 1904 relating to Red Sea and Gulf of Aden Pilot, page 39; also Admiralty List of Lights, Part VI, 1906, No. 130; and Light-Houses and Light-Vessels in British India, 1905, No. 130.

BAY OF BENGAL-BURMA COAST.

Arakan river -- Quter bar shoaling.

No. 251 (third publication).—The British Admiralty has given notice (No. 592 of 1906) that there is considerably less water than shown on the chart on the outer bar of the Arakan river, in the approach to Akyab. A note to this effect has been placed on the charts.

Approximate position, lat. 20° 3′ N., long. 92° 54′ E.

This Notice affects the following Admiralty Charts:—Elephant Point to Cheduba strait, No. 821; Arakan river with plan of Akyab, No. 1884: also Bay of Bengal Pilot, 1901, page 256.

AFRICA, SOUTH-CAPE COLONY.

Immigration flag-Description and use of.

No. 252 (third publication) — The British Admiralty has given notice (No. 595 of 1906) that a yellow flag having a black ball in the centre has been adopted as the Immigration flag at all ports within the colony. This flag (hoisted at the stay) by vessels arriving in port denotes that the examination of passengers by the Immigration Officer is being carried out, and that no person not provided with a permit, or duly authorised by the Immigration Office, is, under penalty, allowed on board that vessel.

This Notice affects the following Admiralty Publications: - Africa Pilot, Part II, 1901, page 34; and Africa Pilot, Part III, 1905, page 17.

JAPAN-NAIKAI.

Akashi no seto-Wreck of a sunken vessel.

No. 253 (third publication).—The British Admiralty has given notice (No. 600 of 1906) that the wreck of a vessel lies sunk in Akashi no seto, in a position from which Yesaki light bears S. 40° W., distant 2 miles and Hira iso light S. 67° E.

Approximate position, lat. 34° 38' N., long. 135° 1' E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Chart: -Akashi no seto No. 93: also Sailing Directions for Japan, &c., 1904, page 426.

CHINA, NORTH-LIAU RIVER.

Newchwang-Beacon removed in approach-Time signal attered.

No. 254 (third publication).—The British Admiralty has given notice (No. 601 of 1906) that the surveying beacon (new beacon) on the eastern bank of Liau river, formerly situated at a distance of 3 cables S. 40° E. from Nodding Tommy beacon, is no longer in existence.

Also that the time-ball at the Custom House flagstaff, Newshwang, is dropped every day at 0^h 0^m 0^s mean time of the 120° of East longitude, or 16^h 0^m 0^s G.M.T., instead of on Saturdays at 0^h 0^m 0^s Local Mean time as formerly. Further particulars in regard to this signal are not given, but it is presumed that Standard time of the 120th meridian of East longitude has been adopted at Newchwang for general use.

Approximate position, Custom House flagstaff on chart No. 2894, lat. 40° 43′ 25″ N., long. 122° 15′ 55″ E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Chart: - Liau river, No. 2894: also List of Time Signals, 1904, page 78; and China Sea Directory, vol. III, 1904, pages 645, 649.

EASTERN ARCHIPELAGO-JAVA, NORTH COAST.

Batavia roads, Vader Smit shoal-Depth over.

No. 255 (third publication).—With reference to Notice to Mariners, No. 202, dated 7th June 1906, issued by this office, the British Admiralty has given further notice (No. 614 of 1906) that the undermentioned coral shoals in Batavia roads are believed to be identical with Vader Smit shoal, which is shown on the chart as having a depth of 3 fathoms over it :-

- (a) The shoal, about 65 yards in extent, with a depth of 7 feet over it, situated in approximately lat. 6° 4′ 0″ S., long. 106° 51′ 15″ E.
- (b) The shoal, about 45 yards in extent, with a depth of 11 feet, situated in approximately lat. 6° 4′ 5" S., long. 106° 51′ 5" E.

The 3-fathom patch has therefore been erased from the Admiralty chart.

Approximate position, lat. 6° 4' S., long. 106° 51' E.

This Notice affects the following Admiralty Charts :- Sunda strait, No. 2056; Batavia road, No. 933: also Eastern Archipelago, Part II, 1904, pages 88, 89.

INDIA, WEST-BOMBAY (GOA) COAST.

No. 256 (third publication).—The British Admiralty has given notice (No. 615 of 1906) that the character of the light at Aguada fort, Goa, would be altered from white fixed to white group flashing, showing groups of three flashes every ten seconds, thus:—flash, haif a second; eclipse, one and-a-half seconds; flash, half a second; eclipse, one and-a-half seconds; flash half a second; eclipse, five and-a-half seconds: it would be visible in clear weather from a distance of 23 miles.

Approximate position, lat. 15° 29% N., long. 73° 46' E.

This Notice affects the following Admiralty Charts:—Indian Ocean, No. 748b; Karachi to Vengurla, No. 826; Vengurla to cape Comorin, No. 827; Viziadrug to Cobhin, No. 2727; Achra river to cape Ramas, No. 740; Murmagao and Goa roadsteads, No. 492: also List of Lights, Part VI, 1906, No. 257; and West Coast of Hindustan Pilot, 1898, page 164.

CHINA SEA-SOUTHERN PORTION.

St. Esprit islands-Non-existence of discoloured water south-westward.

No. 257 (third publication).—The British Admiralty has given notice (No. 616 of 1906) that a careful examination has been made of the area in the neighbourhood of the position, where discoloured water was reported to have been seen, about 25 miles to the south-west-

ward of St. Esprit islands without finding any indication of dangers.

As this discoloured water was merely observed by the Master of the German ship Rebecca in 1875 without any means being taken to ascertain if it was shoal water or not, the words "Discoloured water" have been erased from the charts.

Approximate position, lat. 0° 30' N., long. 106° 38' E.

This Notice affects the following Admiralty Charts :- Eastern Archipelago, No. 941a; China Sea, No. 2660a: also China Sea Directory, vol. II, 1899, page 49.

> ST. L. S. WARDEN, COMMDR., R.I.M., Port Officer of Calcutta.

The 13th July 1906.



APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, AUGUST 8, 1906,

NOTICES TO MARINERS.

THE following Notices are published for general information.

CALCUTTA, the 3rd August 1906.

W. A. INGLIS, Secy. to the Gort. of Bengal.

INDIA, WEST-BOMBAY COAST.

Bankote Outer buoy adrift.

No. 269 (first publication).—The Bombay Government has given notice (No. 72 of 1906) that the Bankote outer buoy broke adrift from its moorings on the 23rd ultimo and was washed ashore at Velas, which is a village close to Bankote.

INDIAN OCEAN-MADAGASCAR-DIEGO. SUAREZ BAY.

Antsirana light-Sectors established.

No. 270 (first publication).—The British Admiralty has given notice (No. 673 of 1906) that on 1st January last the red fixed light on Antsirana jetty, Diego Suarez bay, was altered to show the following sectors:—red from the bearing of S. 64° W. to S. 54° W., white from S. 54° W. to S. 47° W., green from S. 47° W. to S. 34° W., white from S. 34° W., through south and east, to N. 56° E., green from N. 56° E. to N. 7° E., being obscured in other directions; it is elevated 29 feet above high water.

Approximate position, lat. 12° 16′ S., long. 49° 18′ E.

(Variation 7° Westerly in 1906.)

This Notice affects the following Admiralty Charts:—Diego Suarez bay, No. 1116; plin of Port Nièvre on chart No. 1064: Also List of Lights, Part VI, 1906, No. 102, and Islands in the Southern Indian Ocean, 1904, page 62.

EASTERN ARCHIPELAGO-Borneo, WEST COAST.

Pontianak river-Prohibited anchorage in approach marked by buoys and beacons.

No. 271 (first publication).—The British Admiralty has given notice (No. 678 of 1906) that anchorage is prohibited on account of telegraph cables in the approach to the Pontianak river, within the limits which are defined by imaginary lines drawn between two buoys now established and the above the content of the content now established and the shore:-

Southern buoy-

(1) A white can buoy, marked "Telegraaf Kabel No. 1," has been moored in a position about 3 miles from the coast in approximately lat. 0° 1′ 25″ S., long. 109° 6′ 25″ E.

Northern buoy-

(2) A white can buoy, marked "Telegraaf Kabel No. 2," has been moored about 2 cables N. 16° E. from the above buoy.

The limits are also marked by beacons on shore, but the position of the beacons is not

This Notice affects the following Admiralty Chart:—Eastern Archipelago, No. 941a: Also China Sea Di ectory, vol. II, 1899, page 39; and Supplement, 1901, page 3.

EASTERN ARCHIPELAGO-BORNEO, EAST COAST.

Balik Papan bay—Lights of prohibited anchorage altered—Buoy shifted.

No. 272 (first publication).—With reference to Notice to Mariners No. 35, dated 24th February 1905, issued by this office, the British Admiralty has given further notice (No. 679 of 1906) that the southern limit of the prohibited anchorage in Balik Papan bay has been altered so that it is now limited by a line extending S. 20° W. from the southern point of Tokong island to No. 4 buoy in the fairway. No. 4 buoy has therefore been replaced by the black buoy formerly situated at a distance of 13 cables S. 88° W. from the south point of Tokong The northern limit is now a line drawn from the cable-house to the black buoy situated 14½ cables N. 80° W. from the south point of Tokong island.

Approximate position, Tokong, lat. 1° 16′ S., long. 116° 48′ E.

(Variation 2º Westerly in 1906.)

This Notice affects the following Admiralty Plans:—Balik Papan bay and anchorage off the East point of Balik Papan bay on No. 3031: Also Eastern Archipelago, Part II, 1904, page 290.

PACIFIC OCEAN, SOUTH-TUAMOTO ARCHIPELAGO-TAKARAVA ATOLL.

Rotoava approach - Temporary beacons erected.

No. 273 (first publication).-With reference to Notice to Mariners No 221, dated 26th June 1906, issued by this office, the British Admiralty has given further notice (No. 681 of of 1906) that the beacon on the western point of the entrance to North passage, and other beacons in the approach to Rotoava having been destroyed by a cyclone, the following temporary beacons have been erected in the undermentioned positions:—

- (a) Three white beacons on Poniu, near the entrance to the North passage; vessels must pass to the southward of these beacons.
- (b) A white beacon on Togamaitu i tai, Togamaitu i uta, Tapaeroa, and Kopoapiro shoals.
- (c) A white beacon surmounted by a ball, on the shoal situated at a distance of 1,40 miles S. 58° W. from Rotoava light.
- (d) A white beacon on the shoal situated about 74 cables S. 16° W. from Rotoava
- Approximate position, Rotoava light, lat. 16° 24' S., long. 145° 384' W.

Mariners are warned that great care must be exercised in navigating these waters.

(Variation 8° Easterly in 1906.)

This Notice affects the following Admiralty Chart: — Plan of Rotoava on chart No 1175; Also Pacific Islands, vol. III, 1900, pages 133, 134; and Supplement, 1903, page 9.

FOG SIGNALS-ADMIRALTY LISTS OF LIGHTS.

Cautionary Notices.

No. 274 (first publication).—The following Notice to Mariners, issued by the British Admiralty 'No. 682 of 1906), is republished for general information:—

As the cautionary Notices respecting fog-signals given in the Introductory notes in all As the cautionary Notices respecting fog-signals given in the Introductory notes in all copies of the Admiralty Lists of Lights do not appear to be quite understood, more especially the paragraphs pointing out that such signals are heard at greatly varying distances, and that there are occasionally areas around a fog-signal station in which the fog-signal is wholly inaudible, it is thought desirable to point out to seamen that not infrequently a fog-signal, which may be heard under favourable circumstances from a distance of 10 miles or upwards, is inaudible when only 2 or 3 miles off it, and that no surprise should be felt if, from a vessel, either at anchor, or underway, not far from a fog-signal station, the sound of the fog-signal is not heard on heard. signal is not heard on board.

CHINA, SOUTH COAST-HONG HAI BAY.

Sam Chau inlet - Outer bank extending - Leading beacons removed.

No. 275 (first publication).—The British Admiralty has given notice (No. 689 of 1906) that information has been received that soundings taken by the Chinese Revenue schooner Peng tei, on the 7th April 1906, show that the Outer bank in Sam Chau inlet is extending to the southward and westward. The channel is now not more than one cable in width, and is stated to have a depth of \$1 feet at low water.

The leading beacons have been removed.

This inlet should not be entered without a previous examination of the entrance.

Approximate position, Outer bank, lat. 22° 41' N., long. 114° 59' E.

This Notice affects the following Admiralty Chart: -- Sam Chau inlet, No. 3459: Also China Sea Directory, vol. III, 1904, page 137.

EASTERN ARCHIPELAGO-SUMATRA, NORTH-EAST COAST.

Straits of Durian and Berhala - Light buoys established.

No. 276 (first publication).—With reference to Notice to Mariners No. 232, dated 26th June 1906, issued by this office, the British Admiralty has given further notice (No. 692 of 1906) that, on 19th and 18th of May 1906, respectively, the undermentioned light-buoys were established in the straits of Durian and Berhala in the following positions:—

(a) STRAIT OF DURIAN. A light-buoy, painted white, exhibiting a white occulting light every twenty seconds, thus:—light, ten seconds; eclip e, ten seconds; on the north-eastern side of Richardson reef.

Approximate position, lat. 0° 37 1 N., long. 103° 4 1' E.

(b) Berhala strait. A light-buoy, painted in red and black horizontal bands, exhibiting a white occulting light every twenty seconds, thus:—light, ten seconds; eclipse, ten seconds, on the south-eastern side of Speke rock.

Approximate position, lat. 0° 37' S, long. 104° 6' E.

This Notice affects the following Admiralty Charts:—Banka strait to Singapore, No. 2757; strait of Durian, No. 2402; channels between Sumatra and Linga, No. 1789: Also China Sea Directory, vol. I, 1896, pages 557, 546; and Supplement, 1899, page 41.

CHINA, SOUTH-EAST COAST-PAGODA ISLAND.

Tongsang harbour - Shoal reported in entrance to-

No. 277 (first publication).—The British Admiralty has given notice (No 696 of 1906) that the Master of S.S. Yunnan reports that his vessel struck on a shoal, with a depth of 13 feet over it at low-water spring tides, in entrance to Tongsang harbour, in a position 2 miles south from the pagoda on Pagoda island. A sounding of 8 tathoms was obtained immediately before striking.

Approximate position, lat. 23° 42′ N., long. 117° 324′ E.

(Variation nil in 1906.)

This Notice affects the following Admiralty Charts - Formosa island, &c., No. 1968; The -Brothers to Ockson islands, No. 1760; Tongsang harbour, No. 1958: Also China Sea Directory, vol. III, 1904, page 162.

PACIFIC OCEAN-PHILIPPINE ISLANDS-NEGROS AND LEITE.

Dumaguete and Kanigao islands—Lights established.

No 278 (first publication).—The British Admiralty has given notice (No. 699 of 1906) that lights have been established at the undermentioned places in the Philippine islands:—

(a) Dumaguete, Negros island. A red fixed light, elevated 38 feet above high water, visible in clear weather from a distance of 7 miles, from the bearing of S. 27° W., through west, to N. 15° W., and exhibited from a white framework tower, 34 feet high, erected near the beach at Dumaguete.

Approximate position, lat. 9° 183′ N., long. 123° 171′ E.

(b) Kanigao island, Leite island. A red fixed light, elevated 62 feet above high water, visible in clear weather from a distance of 9 miles, and exhibited from a white framework to ver, 52 feet high, erected on the north-eastern point of Kanigao island.

Approximate position, lat. 10° 15" N., long. 124° 444' E.

The positions refer to chart No. 2578.

(Variation 1° Easterly in 1906.)

This Notice affects the following Admiralty Charts:—The Philippine islands, No. 943; Sulu or Mindoro sea. No. 2578: Also List of Lights, Part VI, 1906, pages 101, 103; Eastern Archipelago, Part I, 1.02, pages 274, 290; and Supplement, 190, page 20.

INDIA, WEST-BOMBAY COAST.

Caution-A sunken pilot-schooner near the Outer light-vessel.

No. 261 (second publication).—A telegraphic communication has been received from the Port Officer, Bombay, stating that one of the pilot's schooners lies sunk about N.-W. of the Outer light-vessel, distant half-a-mile; masts visible at low water. Mariners are hereby warned.

The 25th July 1906.

AUSTRALIA, WEST-FREMANTLE APPROACH.

Rottnest island-Fog explosive established.

No. 262 (second publication).—The British Admiralty has given notice (No 641 of 1906) that, on and after 1st June 1906, a fog-explosive signal, giving during thick or foggy weather one report every fifteen minutes, would be established near the centre of Rottnest island.

Approximate position, lat. 32° 0' S., long. 115° 31' E.

Note. -- The cautionary remarks respecting fog signals given in the introductory remarks to all parts of the Admiralty Lists of Lights should be carefully studied.

This Notice affects the following Admiralty Charts:—Campion bay to cape Naturaliste, No. 1033; Rottnest island to Warnbro' sound, No. 1058: also List of Lights, Part VI, 1906, No. 1195; and Australia Directory, Vol. III, 1905, page 309.

JAPAN, SOUTH COAST-GULF OF TOKIO ENTRANCE.

Uraga channel-Buoy marking submarine mines.

No. 263 (second publication).—The British Admiralty has given Notice (No. 646 of 1906) that a white cylindrical buoy has been moored at a distance of $5\frac{8}{10}$ cables S. 60° E. from Ashika jima beacon to mark the outer end of a number of mines which have been submerged for experiment in Uraga channel.

Approximate position, lat. 35° 12½' N., long. 139° 44' E.

The mines will remain in position until January 1907, and Mariners are warned that they should on no account attempt to pass westward of the buoy marking them.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Chart: — Gulf of Tokyo, No. 2657: Also, Sailing Directions for Japan, &c., 1904, pages 364, 369.

KOREA, WEST COAST-SALEE RIVER APPROACH.

Toku somu (Baker island) - Light-house construction.

No. 264 (second publication).—The British Admiralty has given Notice (No. 647 of 1906) that a lighthouse is under construction on Toku somu (Baker island).

Approximate position, lat. 36° 39' N., long. 126° 01' E.

This Notice affects the following Admiralty Charts:—Makau group to Clifford islands, No. 913; approaches to Seoul, No. 1258: Also, List of Lights, part VI., 1906, No. 916; and Sailing Directions for Korea, &c., 1904, page 51.

KOREA, SOUTH COAST.

Uto (Beaufort island) - Ari somu (Sentinel island), and Uru Saki - Lights established.

No. 265 (second publication).—The British Admiralty has given notice (No. 648 of 1906) that the undermentioned lights have been established off the south coast of Korea, in the following positions :-

UTO OR BEAUFORT ISLAND.

A white fixed light (unwatched), elevated 442 feet above high water, and visible in clear weather from a distance of 8 miles from the bearing of S. 66° E., through south and west, to N. 19° E., has been established in a white wooden building, 20 feet high, erected on the eastern end of the island.

Approximate position, lat. 33° 29½' N., long. 126° 58' E.

ARI SOMU OR SENTINEL ISLAND.

A white fixed light, elevated 382 feet above high water, has been established in a white wooden building, 32 feet high, erected on the summit of Ari somu.

Aproximate position lat. 34° 32½' N., long. 128° 44' E.

URU SAKI, north-east point of Commemoration bay.

A white fixed light (unwatched), elevated 97 feet above high water, and visible in clear weather from a distance of 8 miles from the bearing of S. 15° W., through west and north, to N. 50° E., has been established in a white wooden building erected on Uru saki, north-east point of cape Tikmenev.

It has been placed on the chart in approximately lat. 35° 30' N., long. 129° 301' E., and the position marked Uru saki.

(Variation 4º Westerly in 1906.)

This Notice affects the following Admiralty Char's:—Nipon, Kiusiu, &c., No. 2347; Shangtung to Nagasaki, No. 3480; Korean archipelago, No. 104; Western coasts of Kiusiu, &c., No. 358: Also, List of lights, part VI, 1906, pages 151, 153; and Sailing Directions for Japan Korea, &c., 1904, pages 89, 104, 130.

KOREA, EAST COAST-GENSAN.

Korumappo (Muraveva Point)-Light established.

No. 266 (second publication).—The British Admiralty has given notice (No. 649 of 1906) that a red fixed light elevated 187 feet above high water and visible from the bearing of N 27° E., through east and south, to N. 62° W., has been established in a white wooden building, 20 feet high, erected on the high land of Korumappo or Muraveva Point in the approach to Gensan.

Approximate position, lat. 39° 12½' N., long. 127° 28½' E.

(Variation 5° Westerly in 1906.)

This Notice affects the following Admiralty Chart:—Cape Duroch to Linden Point, No. 1316; port Lazaref, No. 3037: also List of Lights, Part VI, 1906, page 153, and Sailing Directions for Japan and Korea, &c., 1904, page 136.

AUSTRALIA, EAST COAST-QUEENSLAND.

Brisbane river-Quarries Reach channel-Altered lights and buoys moved.

No. 267 (second publication).—The British Admiralty has given notice (No. 653 of 1906) that on and after June 19th the newly-dredged channel through Quarries reach would be open, the Hamilton reach channel having been extended to the eastward to connect with it.

The leading beacons used for the old channel would be moved to suit the new channel, The leading beacons used for the old channel would be moved to suit the new channel, those formerly situated at a distace of 2½ cables westward from Colmslie pontoon head being shifted 2½ cables S. 66° E. from their former positions, their relative positions being altered to suit the direction of the new channel, viz., S. 67° W. and N. 67° E. from each other; these two beacons or their lights in line S. 67° W. lead through the newly-dredged channel.

Leading beacons will also be established, one on Eagle Farm flats training wall at a distance of 1½ cables N 14° W. from Bridge Point, and a rear beacon approximately 4 cables No. 67° E. from the front beacon, to assist in passing through the new Quarries reach

channel.

These two beacons in line N. 67° E. lead through the new channel.

The red buoy formerly marking the turning point of the Hamilton reach channel and Quarries reach old channel will be moored 2½ cables S. 80° E. to mark the turning point in the new channel.

Approximate position, Colmslie pontoon, lat. 27° 27' S., long. 153° 5' E.

The positions of the above beacons and buoy are approximate, their exact positions not having been given.

(Variation 9° Easterly in 1906.)

This Notice affects the following Admiralty Chart:—Brisbane river, No. 1674; also List of Lights, Part VI, 1906, page 230, No. 1434, Australia Directory, vol. II, 1898, pages 141, 142; and Supplement, 1900, page 7.

CHINA-YANG TSE KIANG, NORTH CHANNEL.

Approximate polition, Lt. 13 pp. - 14

a of bearing Drinkwater Point-Light and light-buoy to be replaced by light-vessel.

No. 268 (second publication).—The British Admiralty has given notice (No. 654 of 1906) that the Chinese Government intend, probably on July 1st next, to establish a light-vessel (without a crew), exhibiting a white occulting dioptric light every ten seconds, thus:—light, five seconds; eclipse, five seconds, in a position about 3 miles N. 83° W., from Drinkwater Point light and bell-buoy; the light, which will be of the 4th order, will be elevated 35 feet above the sea, and visible in clear weather from a distance of 11 miles; the vessel will be iron and painted red, having an iron column surmounted by a lantern. A bell, rung by the motion of the vessel, will be suspended on board. of the vessel, will be suspended on board.

Approximate position, lat. 34° 241' N., long. 121° 561' E.

On the establishment of the above light-vessel, the white group flashing light on Drink-water Point, and Drinkwater Point light and bell-buoy will be discontinued.

Further Notice will be given.

(Variation 2º Westerly in 1906.)

This Notice affects the following Admiralty Charts: - Kueshan islands to Yang tse Kiang No. 1199; approaches to the Yang tse Kiang, No. 1602: also List of Lights, Part VI, 1906 page 133, No. 813; and China Sea Directory, vol. III, 1904, page 402.

The 27th July 1906.

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BAY OF BENGAL-CHITTAGONG COAST.

Kurnafuli river - Depth of water found in the channels.

No. 258 (third | publication).—The Port Officer, Chittagong, has given notice that the following depth of water was found in the channels by soundings taken on the 10th July and reduced to zero :-

m 1 M. 1 Outen ham —					FT.	IN.	Š
Track No. 1—Outer bar— Disc on diamond					13		
Track No. 2—Inner bar— Disc on diamond Batten beacon on pillar		1/a	A LAST	0 A	12 12	0	
Track No. 3— Triangle on cross and ball			1	•••	19	0	00 40 TO 15 4 CO
Track No. 4-Guptakhally ere Tripod on diamond	ossing—		nana salah Santa		16	0	SCHOOL STREET

CHINA, EAST COAST-CHUSAN ARCHIPELAGO.

Tengting island-Light-house building-Provisional light.

No. 259 (third publication).—The British Admiralty has given notice (No. 622 of 1906) that a light-house from which a light of the fourth order showing groups of four white flashes will be exhibited is in course of erection on Tongting island, Chusan Archi-

On or about 1st May a provisional white group occulting light, showing groups of four eclipses every thirty seconds, thus:—light, sixteen seconds; eclipse, two seconds; light, two seconds; eclipse, two seconds; light, two seconds; eclipse, two seconds; light, two seconds; eclipse, two seconds; would be exhibited from the summit of the island at an elevation of 180 feet above high water, and visible in clear weather from a distance of 10 miles the light being of the sixth order. miles, the light being of the sixth order.

A fog signal will also be established on this island.

Approximate position on chart No. 1429, lat. 29° 51‡' N., long. 122° 35‡' E.

Further Notice will be given when this light has been established.

This Notice affects the following Admiralty Charts:—Amoy to Nagasaki, No. 2412; Hong Kong to Liau tung gulf, No. 1262; Kue shan islands to the Yang tse, No. 1199; Nimrod sound to Yung river, No. 1429: Also List of Lights, Part VI, 1906, page 129; and China Sew Directory, vol. III, 1904, page 334.

AFRICA, NORTH-EAST-GULF OF ADEN.

Aden anchorage—Buoy to be established and position of Marbut shoal light-vessel to be altered.

No. 260 (third publication).—The Bombay Government has given notice (No. 71 of 1906) that on the 26th July a white Nun Buoy with a black top showing a green light at night will be moored on the following bearings:-

Clock Tower	•••	•••		889° 00E
Marbut flagstaff	Market 1			871° 30E
Residency flagstaff	***		***	834° 00E
Signal staff	***			866° 00'E

and that Marbut Light-Vessel will be moved S80° W, a distance of 80 yards, to a position on the following bearings :-

Clock Tower				N81° 00E
Marbut flagstaff		•••		N85° 00E
Residency flagstaff	•••		***	S46° 00E
Signal staff	•••			880° 30E

All bearings are true.

This notice affects the following Admiralty Charts:—Gulf of Aden, Sheet II, Western portion, No. 6C; Aden and adjacent bays. Aden Anchorage, No. 7; Red Sea, Sheet V, No. 8E; and Arabian Sea, No. 1012; and Red Sea and Gulf of Aden Pilot, fifth edition, 1900, pages 349 and 350, and Supplement 1904 relating to Red Sea and Gulf of Aden Pilot, page 39; also Admiralty List of Lights, Part VI, 1906, No. 130; and Light-Houses and Light-Vessels in British India, 1905, No. 130.

St. L. S. WARDEN, COMMDR., R.I.M., Port Officer of Calcutta.



APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, AUGUST 15, 1906.

NOTICES TO MARINERS.

THE following Notices are published for general information.

W. A. INGLIS, Secy. to the Gort. of Bengal.

CALCUTTA, the 10th August 1906.

JAPAN-Naikai (Inland sea).

Shimonoseki (Simonoseki) strait, Moji shoal-Alteration in position of light-buoys.

No. 279 (first publication). - With reference to Notice to Mariners No. 309, dated 12th August 1905, issued by this office, the British Admiralty has given further notice (No. 706 of 1906) that the light-buoy, marking the north-east end of Moji shoal, situated at a distance of 6½ cables S. 73° E. from the Observation spot, Simonoseki, has been moved about half a cable N. 34° E. from its former position, and is now situated at a distance of 6½ cables S. 78° E. from the Observation spot.

Also, that the light-buoy, marking the south-west end of Moji shoal, situated at a distance of 5½ cables S. 23° E. from the Observation spot, has been moved about three-quarters of a cable South from its former position, and is now situated at a distance of 6 cables S. 20° from the Observation spot.

Approximate position, Observation spot, lat. 33° 57½' N., long. 130° 56½' E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Charts:—Simonoseki strait, Nos. 532 and 1578; Moji ko, No. 3114: Also Sailing Directions for Japan, 1904, page 502.

JAPAN-GULF OF TARTARY-KARAFUTO (SAKHALIN) ISLAND, WEST COAST.

Lesovskago bay-Shoal reported.

No. 280 (first publication).—The British Admiralty has given notice (No. 707 of 1906) that a shoal having a depth of 2 fathoms over it is reported to exist in Lesovskago bey, in approximately lat. 49° 14′ N., long. 142° 1′ E.

This shoal, which is composed of hard sand and mud, is one mile long in a northerly and southerly direction and 5 cables broad, the general depths over it are from 2 to 3 fathoms and there is a depth of 4 fathoms on its southern end, but the northern end was not examined.

This Notice affects the following Admiralty Charts: -Gulf of Tartary, No. 8340: Also, Sailing Directions for Japan, &c , 1904, page 231.

KOREA, WEST COAST.

Taidong kang (Ping Yang inlet) - Extension of sand bank.

No. 281 (first publication).—The British Admiralty has given notice (No. 708 of 1906) that a sand bank, with a depth of 2 fathoms over it at low water, is reported to exist in the entrance to Taidong kang or Ping yang inlet, in a position from which the north-western point of Dau chen bears S. 56° W., distant 11 cables, and the north-eastern point of the same island S. 22° E. This sand bank appears to be connected with the line of shoals extending westward from Utt chu ra to.

Approximate position, lat. 38° $40\frac{1}{2}$ ′ N., long. 125° $0\frac{1}{2}$ ′ E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Charts:—Approaches to Ping yang inlet, No. 1257; Ping yang inlet, No. 1656: Also, Sailing Directions for Japan, &c., 1904, pages 39-41.

AUSTRALIA-NEW SOUTH WALES.

Newcastle harbour-Decreased depth in entrance.

No. 282 (first publication). - With reference to Notice to Mariners No. 439, dated 20th December 1904, issued by this office, the British Admiralty has given further notice (No. 713 of 1906) that as the depths in the fairway of the entrance to Newcastle harbour have decreased, the signals made from the Pilot station will, until further notice, indicate each foot of rise or fall above 18 feet, and not 20 feet as before.

When abreast, Nobby head vessels will find rather more retained.

When abreast Nobby head vessels will find rather more water to the southward of the

leading line of the towers.

Approximate position, lat. 32° 55′ S., long. 151° 48′ E.

This Notice affects the following Admiralty Chart :- Newcastle harbour, No. 2119: 4180 Australia Directory, vol. II, 1898, page 80.

EASTERN ARCHIPELAGO-SUMATRA-MALACCA STRAIT-THE BROTHERS.

Pulo Hiju Kechil-Light established.

No. 283 (first publication). - With reference to Notice to Mariners No. 120, dated 7th April 1906, issued by this office, the British Admiralty has given further notice (No. 715 of 1906) that a white flashing light, every twenty seconds, thus:—light, four seconds, eclipse, sixteen seconds, elevated 131 feet above high water and visible in clear weather from a distance of 17 miles, has been established in a white framework iron structure, 44 feet high, having at its base a white wooden dwelling with red tiled roof, erected on Pulo Hiju Kechil, the easternmost of the Brothers islands.

The light is of the 4th order and produced by acetylene gas.

Approximate position, lat. 1° 11½' N., long. 103° 21½' E.

This Notice affects the following Admiralty Charts:—Malacca strait, No. 1355; cape Rachado to Singapore, No. 795; approaches to Singapore, No. 3543; Singapore strait, No. 2403: also List of Lights, Part VI, 1906, page 71; China Sea Directory, vol. I, 1896, page 113; and Supplement, 1899, page 12.

CHINA, EAST COAST.

Lamock islands-Shoal westward of-.

No. 284 (first publication).—The following Notice to Mariners (No. 721 of 1906) issued

by the British Admiralty is republished :-

Information, dated 14th May 1906, has been received from Commander E. LaT. Leatham, H.M.S. Alacrity, that when westward of Lamock islands a sounding of 6 fathoms was obtained from on board his vessel, in a position from which Sul rock bore N. 36° W., distant 51 miles.

Approximate position, lat. 23° 13½′ N., long. 117° 10¾′ E.

Vessels should avoid this shoal as there may be less water on it.

(Variation Nil in 1908.)

This Notice affects the following Admiralty Charts: -Hong-Kong to the Br No. 1962; Namoa island, No. 1957: also China Sea Directory, vol. III, 1904, page 158.

INDIAN OCEAN--MADAGASCAR, WEST COAST.

Tullear bay - Shoal extending-Beacons altered.

No. 285 (first publication).—The British Admiralty has given notice (No. 724 of 1906) that the shoal off Anosi point at the mouth of the river Fiherenana is extending seaward, the shoal water now having reached the pecked line denoting the fairway. This line requires moving slightly to the westward.

The beacon westward of Anosi and the Anosi flagstaff, 6 cables to the eastward of it, have disappeared, but a wooden tripod beacon, the position of which has not been determined,

has been erected in this vicinity.

A pole beacon, surmounted by a diamond shape painted white, has been erected on the coast N. 53 W. from Table mountain. This beacon in line with Table mountain S. 53° E. leads up to the entrance of Tulléar channel until Great Reef beacon bears south, whence the course should be altered as requisite.

Approximate position, Tulléar channel, lat. 23° 21' S., long. 43° 37' E.

(Variation 15° Weasterly in 1906.)

This Notice affects the following Admiralty Chart:—St. Augustine and Tulléar bays, No. 692: also Islands of the Southern Indian Ocean, 1904, page 251.

KOREA, WEST COAST.

Amu Nyoku kan (Yalu river) - Buoys established in southern approach.

No. 286 (first publication).—The British Admiralty has given notice (No. 725 of 1906) that the undermentioned buoys have been established in the southern approach to Amu Nyoku kan or Yalu kiang in the following positions:—

- A black conical buoy with topmark, marked No. 1, in approximately lat. 39° 35³/₄′ N., long. 124° 22³/₄′ E.
- (2) A light-buoy, painted red, marked No. 2, exhibiting a white fixed light, in approximately lat. 39° 30½′ N., long. 124° 21¾′ E.
- (3) A black conical buoy with topmark, marked No. 3, in approximately lat. 89° 45½ N., long. 124° 24½′ E.
- (4) A red conical buoy with topmark, marked No. 4, in approximately lat. 39° 46′ N. long. $124^{\circ}~24_4^{3}'$ E.
- (5) A black conical buoy, marked No. 7, in approximately lat. 39° 464′ N., long. 124° 24′ E.
- (6) A black conical buoy, marked No. 9, in approximately lat. 39° 47½' N., long 124° 23½ E.

This Notice affects the following Admiralty Charts:—Pe chili and Liau tung gulfs No. 1256; approaches to Ping Yang inlet, No. 1256: also Sailing Directions for Japan, etc. 1904, page 37; and China Sea Directory, vol. III, 1904, page 577.

CHINA, SOUTH-EAST COAST.

Good Hope cape - Shoal to the north-eastward.

No. 287 (first publication).—The British Admiralty has given notice (No. 731 of 1906) of the existence of a rock, with a depth of 4½ fathoms over it, situated at a distance of about 5 cables N. 75° E. from Good Hope cape light-house in the approach to Swatau. This shoal, which is about one mile in extent, is still under examination: less water may therefore be found over it.

Approximate position on chart No. 854, lat. 23° 141 N., long. 116° 49' E.

(Variation Nil in 1906.)

This Notice affects the following Admiralty Charts:—Hong Kong to the Brothers, No. 1962; Namoa island, No. 1957; port of Swatau, No. 854: Also, China Sea Directory, vol. III, 1904, page 147.

JAPAN SEA-PETER THE GREAT BAY.

Caution-Vladivostock approach-Submarine mines.

No. 288 (first publication).—The British Admiralty has given notice (No. 737 of 1906) that submarine mines were laid during the late war between Russia and Japan by both belligerents, extending apparently as far southward in Ussuri bay as a line joining Askold island to the Rimskago Korsakofa islands, a distance of about 40 miles. Damage has been caused to several steam-vessels approaching Vladivostock from the south-eastward by coming in contact with either fixed or drifting mines.

The Russian Gayermant has given Notice, dated 6th June 1906, that a temporary

The Russian Government has given Notice, dated 6th June 1906, that a temporary white fixed light was established on 4th May last, in a light-house in course of construction on Cape Gamova, to assist in the navigation of the channel to Vladivostock by its western approach through Amur bay, which channel should be used until notice is issued that the aastern approach is fire from dances.

issued that the eastern approach is free from danger.

Vessels, therefore, bound to Vladivostock should make cape Gamova. According to a Berlin Notice, the route thence to be followed is to pass westward of Rimskago Korsakofa, Stenin, and Tsivolko, with Popova and Kozakevicha close aboard, to the Eastern Bosporus.

A for given would be established probably in June at Gamova light-house.

A fog siren would be established, probably in June, at Gamova light-house.

Approximate position lat. 42° 33½' N., long. 131° 12½' E.

This Notice affects the following Admiralty Charts:—Tumen Ula to Strelok bay, No. 2432; Trinity bay to Eastern Bosporus, No. 511; Ussuri bay, No. 288; Eastern Bosporus, No. 1011: Also, List of Lights, Part VI, 1906, page 189; and Sailing Directions for Japan, &c., 1904, pages 162, 177, 178.

AUSTRALIA-VICTORIA-HOBSON BAY.

Gelllbrand point light - Date of exhibition - Buoys to be withdrawn.

No. 289 (first publication). - With reference to Notice to Mariners No. 142, dated 23rd No. 289 (first publication).—With reference to Notice to Mariners No. 142, dated 23rd April 1906, issued by this Office, the British Admiralty has given further notice (No. 746 of 1906) that a pile lighthouse having been constructed in the position formerly occupied by Gellibrand light vessel, viz.,—8 cables South from the green light on the breakwater extending from Gellibrand point, Hobson bay, on and after 1st August next, an occulting light every eighteen seconds, elevated 50 feet above high water, and visible in clear weather from a distance of 12 miles, will be established in that structure. It will show the following sectors:—red, fifteen seconds; eclipse, three seconds from the bearing of N. 63° E. to N. 39° E.; white, six seconds; red, three seconds from N. 39° E., through north, to N. 33° W.; red, fifteen seconds; eclipse, three seconds from N. 33° W., through west, to S. 63° W.; white, six seconds; red, three seconds; white, six seconds; eclipse, three seconds; white, six seconds; eclipse, three seconds from N. 33° W., through west, to S. 63° W.; white, six seconds; red, three seconds; white, six seconds; eclipse, three seconds from S. 63° W., to South.

The undermentioned aids to navigation placed to mark the works in progress will be

The undermentioned aids to navigation placed to mark the works in progress will be

withdrawn on the same date :-

The light-buoy exhibiting a red fixed light moored 400 feet eastward of the lighthouse constructing.

vessel from which rockets will be fired, during thick or foggy weather, moored 400 feet southward of the light-buoy: Ъ. The

The white fixed light exhibited from the eastern end of the works whilst the lighthouse was under construction.

The red flag displayed when pile driving was in progress,

Approximate position, lat. 37° 524' S., long. 144° 55' E.

The exact position of the lighthouse is not stated.

(Variation 8° Easterly in 1906.)

This Notice affects the following Admira'ty Charts:—Port Philip, No. 1171b; Hobson bay, No. 624: Also, List of Lights, part VI, 1906, No. 1320; Australia Directory, vol. I, 1897, page 459; and Supplement, 1900, page 17.

INDIA, WEST-BOMBAY COAST.

Bombay harbour approach—Present position of wrecked Schooner No. 1.

No. 290 (first publication). With reference to Notice to Mariners No. 261, dated 25th July 1906, issued by this Office, the Bombay Government has given further notice (No. 75 of 1906) that the position of the wrecked Schooner No. 1 now is about N. E. from the Light Vessel, one mile.

Bearings from the wreck are-Light Vessel S. W. (T). Maiabar Point North (T). Prongs Light House N. by E. (T).

AUSTRALIA-BROADMOUNT HARBOUR.

Fitzroy river, No. 3 Lead, Middle channel-Sandbank extending southward.

No. 291 (first publication).—The Portmaster, Brisbane, has given notice (No. 4 of 1906) that the small sandbank in No. 3 Lead, Middle Channel, Fitzroy River, having grown to the southward, the depth in the centre of the Lead is now only 7 feet 6 inches. Masters are therefore recommended to keep the dolphins of this Lead open their own width to the southward, when a depth of 19 feet at low water will be obtained.

Charts affected - Nos. 345 and 363, Australia Directory, vol. 2.

AUSTRALIA-PORT WAKEFIELD APPROACH.

Gulf of St. Vincent, east side-Existence of isolated and scattered rocks-Navigation dangerous.

No. 2 2 (first publication).—The President of the Marine Board, Port Adelaide, has given notice (No. 12 of 1906) that isolated and scattered rocks having at various times been reported as existing on the flats between Long Spit and Bald Hill, and some of them being said to have 6 feet less water over them than is shown on the chart, masters of vessels and others are hereby warned against navigating in less water than, say, 6 feet over their draught.

These flats, for about three miles seaward from high-water mark, may be considered

as foul ground.

This affects Admiralty Chart No. 2389 B.

AUSTRALIA-KANGAROO ISLAND.

Kingscote-Character of lights to be exhibited.

No. 293 (first publication).—The President of the Marine Board, Port Adelaide, has given notice (No. 13 of 1906) that in future the following lights will be exhibited at Kingscote, Kangaroo Island, viz.-

- (1) From a white painted house on the rise at the inner end of the jetty, a fixed white light showing to seaward over the jetty, and visible in clear weather a distance of eight (8) miles.
- (2) From a post on the outer end of the jetty, a light, showing red to seaward and white to landward over the jetty, at a height of thirteen (13) feet above H.-W., and visible in clear weather about four (4) miles.

The two lights in line lead over the Telegraph Bell Buoy, and bear from it N. 74° W. correct magnetic.

Approximate position of high light-Lat. 35° 40' S.; long. 137° 38' 30" E.

This affects Admiralty Chart No. 2389B.

The 10th August 1906.

INDIA WEST-BOMBAY COAST.

Bombay harbour approach .- A green painted "Wreck" buoy placed.

No. 294 (first publication).—In continuation of Notice to Mariners No. 290, dated the 10th August, issued by this office, the Bombay Government has given further notice, dated 8th idem, that a wreck buoy painted green with the word "Wreck" in white letters on its side has been placed on the East or Mid-channel side of the wreck of Pilot Schooner No. 1-From the buoy the following are True bearings:-

Prongs Light House Sunk Rock Light House Thull Knob Beacon ... N. 9½° E. ... N. 84° E. ... S. 70½° E.

The 13th August 1906.

INDIA, WEST-BOMBAY COAST.

Bankote Outer buoy adrift.

No. 269 (second publication).—The Bombay Government has given notice (No. 72 of 1906) that the Bankote outer buoy broke adrift from its moorings on the 23rd ultimo and was washed ashore at Velas, which is a village close to Bankote.

INDIAN OCEAN—Madagascar—Diego Suarez Bay.

Antsirana light-Sectors established.

No. 270 (second publication).—The British Admiralty has given notice (No. 673 of 1906) that on 1st January last the red fixed light on Antsirana jetty, Diego Suarez bay, was altered to show the following sectors:—red from the bearing of S. 64° W. to S. 54° W., white from S. 54° W. to S. 47° W., green from S. 47° W. to S. 34° W., white from S. 34° W., through south and east, to N. 56° E., green from N. 56° E. to N. 7° E., being obscured in other directions: it is clayated 20 for above high water. in other directions; it is elevated 29 feet above high water.

Approximate position, lat. 12° 16′ S., long. 49° 18′ E.

(Variation 7º Westerly in 1906.)

This Notice affects the following Admirally Charts :- Diego Suarez bay, No. 1116; plan of Port Nièvre on chart No. 1064: Also List of Lights, Part VI, 1906, No. 102, and Islands in the Southern Indian Ocean, 1904, page 62.

EASTERN ARCHIPELAGO-Borneo, WEST COAST.

Pontianak river—Prohibited anchorage in approach marked by buoys and beacons.

No. 271 (second publication).—The British Admiralty has given notice (No. 678 of 1906) that anchorage is prohibited on account of telegraph cables in the approach to the Pontianak river, within the limits which are defined by imaginary lines drawn between two buoys now established and the shore:-

Southern buoy-

(1) A white can buoy, marked "Telegranf Kabel No. 1," has been moored in a position about 3 miles from the coast in approximately lat. 0° 1′ 25″ S., long. 109° 6′ 25″ E.

Northern buoy-

(2) A white can buoy, marked "Telegraaf Kabel No. 2," has been moored about 2 cables N. 16° E. from the above buoy.

The limits are also marked by beacons on shore, but the position of the beacons is not given.

This Notice affects the following Admiralty Chart :- Eastern Archipelago, No. 941a : Also China Sea Directory, vol. 11, 1899, page 39; and Supplement, 1901, page 3.

EASTERN ARCHIPELAGO-Borneo, BAST COAST.

Balik Papan bay-Lights of prohibited anchorage altered-Buoy shifted.

No. 272 (second publication). - With reference to Notice to Mariners No. 35, dated 24th No. 272 (second publication).— With reference to Notice to Mariners No. 35, dated 24th February 1905, issued by this office, the British Admiralty has given further notice (No. 679 of 1906) that the southern limit of the prohibited anchorage in Balik Papan bay has been altered so that it is now limited by a line extending S. 20° W. from the southern point of Tokong island to No. 4 buoy in the fairway. No. 4 buoy has therefore been replaced by the black buoy formerly situated at a distance of 13 cables S. 88° W. from the south point of Tokong. The northern limit is now a line drawn from the cable-house to the black buoy situated 14½ cables N. 80° W. from the south point of Tokong island.

Approximate position, Tokong, lat. 1° 16' S., long. 116° 48' E.

(Variation 2º Westerly in 1906.)

This Notice affects the following Admiralty Plans :- Balik Papan bay and anchorage off the East point of Balik Papan bay on No. 3031: Also Eastern Archipelago, Part II, 1904, page 290.

PACIFIC OCEAN, SOUTH-TUAMOTO ARCHIPELAGO-TAKARAVA ATOLL.

Rotoava approach - Temporary beacons erected.

No. 273 (second publication).—With reference to Notice to Mariners No. 221, dated 26th June 1906, issued by this office, the British Admiralty has given further notice (No. 681 of of 1906) that the beacon on the western point of the entrance to North passage, and other beacons in the approach to Rotoava having been destroyed by a cyclone, the following temporary beacons have been erected in the undermentioned positions :-

(a) Three white beacons on Poniu, near the entrance to the North passage; vessels must pass to the southward of these beacons.
 (b) A white beacon on Togamaitu i tai, Togamaitu i uta, Tapaeroa, and Kopoapiro

shoals.

(c) A white beacon surmounted by a ball, on the shoal situated at a distance of 1,4 miles S. 58° W. trom Rotoava light.

(d) A white beacon on the shoal situated about 74 cables S. 16° W. from Rotoava light.

Approximate position, Rotoava light, lat. 16° 2½' S., long. 145° 38½' W.

Mariners are warned that great care must be exercised in navigating these waters.

(Variation 8° Easterly in 1906.)

This Notice affects the following Admiralty Chart:—Plan of Rotoava on chart No. 1175: Also Pacific Islands, vol. III, 1900, pages 133, 134; and Supplement, 1903, page 9.

FOG SIGNALS-ADMIRALTY LISTS OF LIGHTS.

Cautionary Notices.

*No. 274 (second publication).—The following Notice to Mariners, issued by the British Admiralty (No. 682 of 1906), is republished for general information:—

As the cautionary Notices respecting fog-signals given in the Introductory notes in all copies of the Admiralty Lists of Lights do not appear to be quite understood, more especially the paragraphs pointing out that such signals are heard at greatly varying distances, and that there are occasionally areas around a fog-signal station in which the fog-signal is wholly inaudible, it is thought desirable to point out to seamen that not infrequently a fog-signal, which may be heard under favourable circumstances from a distance of 10 miles or upwards, is inaudible when only 2 or 3 miles off it, and that no surprise should be felt if, from a vessel, either at anchor, or underway, not far from a fog-signal station, the sound of the fogsignal is not heard on board.

CHINA, SOUTH COAST-HONG HAT BAY.

Sam Chau inlet - Outer bank extending - Leading beacons removed.

No. 275 (second publication).—The British Admiralty has given notice (No. 689 of 1906) that information has been received that soundings taken by the Chinese Revenue schooner Pêng tei, on the 7th April 1906, show that the Outer bank in Sam Chau inlet is extending to the southward and westward. The channel is now not more than one cable in width, and is stated to have a depth of \$1 feet at low water.

The leading beacons have been removed. This inlet should not be entered without a previous examination of the entrance.

Approximate position, Outer bank, lat. 22° 41' N., long. 114° 59' E.

This Notice affects the following Admiralty Chart:—Sam Chau inlet, No. 3459: Also China Sea Directory, vol. III, 1904, page 137.

EASTERN ARCHIPELAGO-SUMATRA, NORTH-EAST COAST.

Straits of Durian and Berhala-Light buoys established.

No. 276 (second publication).—With reference to Notice to Mariners No. 232, dated 26th June 1906, issued by this office, the British Admiralty has given further notice (No. 692 of 1906) that, on 19th and 18th of May 1906, respectively, the undermentioned light-buoys were established in the straits of Durian and Berhala in the following positions:—

(a) STRAIT OF DURIAN. A light-buoy, painted white, exhibiting a white occulting light every twenty seconds, thus:—light, ten seconds; eclipse, ten seconds; on the north-eastern side of Richardson reef.

Approximate position, lat. 0° 37½ N., long. 103° 43' E.

(b) Berhala strait. A light-buoy, painted in red and black horizontal bands, exhibiting a white occulting light every twenty seconds, thus:—light, ten seconds; eclipse, ten seconds, on the south-eastern side of Speke rock.

Approximate position, lat. 0° 37' S., long. 104° 6' E.

This Notice affects the following Admiralty Charts:—Banka strait to Singapore, No. 2757; strait of Durian, No. 2402; channels between Sumatra and Linga, No. 1789: Also China Sea Directory, vol. I, 1896, pages 557, 546; and Supplement, 1899, page 41.

CHINA, SOUTH-EAST COAST-PAGODA ISLAND.

Tongsang harbour-Shoal reported in entrance to-

No. 277 (second publication).—The British Admiralty has given notice (No. 696 of 1906) that the Master of S.S. Yunnan reports that his vessel struck on a shoal, with a depth of 13 feet over it at low-water spring tides, in entrance to Tongsang harbour, in a position 2 miles south from the pagoda on Pagoda island. A sounding of 8 tathoms was obtained immediately before striking.

Approximate position, lat. 23° 42' N., long. 117° 323' E.

(Variation nil in 1906.)

This Notice affects the following Admiralty Charts:—Formosa island, &c., No. 1968; The Brothers to Ockseu islands, No. 1760; Tongsang harbour, No. 1958: Also China Sea Directory, vol. III, 1904, page 162.

PACIFIC OCEAN-PHILIPPINE ISLANDS-NEGROS AND LEITE.

Dumaguete and Kanigao islands-Lights established.

No. 278 (second publication).—The British Admiralty has given notice (No. 699 of 1906) that lights have been established at the undermentioned places in the Philippine islands:—

(a) Dumbguete, Negros island. A red fixed light, elevated 38 feet above high water, visible in clear weather from a distance of 7 miles, from the bearing of S. 27° W., through west, to N. 15° W., and exhibited from a white framework tower, 34 feet high, erected near the beach at Dumaguete.

Approximate position, lat. 9° 183' N., long. 123° 171' E.

(b) Kanigao island, Leite island. A red fixed light, elevated 62 feet above high water, visible in clear weather from a distance of 9 miles, and exhibited from a white framework tower, 52 feet high, erected on the north-eastern point of Kanigao island.

Approximate position, lat. 10° 15" N., long. 124° 441' E.

The positions refer to chart No. 2578.

(Variation 1º Easterly in 1906.)

This Notice affects the following Admiralty Charts:—The Philippine islands, No. 943; Sulu or Mindoro sea, No. 2578: Also List of Lights, Part VI, 1906, pages 101, 103; Eastern Archipelago, Part I, 1902, pages 274, 290; and Supplement, 1906, page 20.

INDIA, WEST-BOMBAY COAST.

Caution-A sunken pilot-schooner near the Outer light-vessel.

No. 261 (third publication).—A telegraphic communication has been received from the Port Officer, Bombay, stating that one of the pilot's schooners lies sunk about N.-W. of the Outer light-vessel, distant half-a-mile; masts visible at low water. Mariners are hereby warned.

The 25th July 1906.

AUSTRALIA, WEST-FREMANTLE APPROACH.

Rottnest island-Fog explosive established.

No. 262 (third publication).—The British Admiralty has given notice (No 641 of 1906) that, on and after 1st June 1906, a fog-explosive signal, giving during thick or foggy weather one report every fifteen minutes, would be established near the centre of Rottnest island.

Approximate position, lat. 32° 0' S., long. 115° 31' E.

Note.—The cautionary remarks respecting fog signals given in the introductory remarks to all parts of the Admiralty Lists of Lights should be carefully studied.

This Notice affects the following Admiralty Charts:—Campion bay to cape Naturaliste, No. 1033: Rottnest island to Warnbro' sound, No. 1058: also List of Lights, Part VI, 1906, No. 1195; and Australia Directory, Vol. III, 1905, page 309.

JAPAN, SOUTH COAST-GULF OF TOKIO ENTRANCE.

Uraga channel-Buoy marking submarine mines.

No. 263 (third publication).—The British Admiralty has given Notice (No. 646 of 1906) that a white cylindrical buoy has been moored at a distance of 5 to cables S. 60° E. from Ashika jima beacon to mark the outer end of a number of mines which have been submerged for experiment in Uraga channel.

Approximate position, lat. 35° 12½' N., long. 139° 44' E.

The mines will remain in position until January 1907, and Mariners are warned that they should on no account attempt to pass westward of the buoy marking them.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Chart: — Gulf of Tokyo, No. 2657: Also, Sailing Directions for Japan, &c., 1904, pages 364, 369.

KOREA, WEST COAST-SALEE RIVER APPROACH.

Toku somu (Baker island) - Light-house construction.

No. 264 (third publication).—The British Admiralty has given Notice (No. 647 of 1906) that a lighthouse is under construction on Toku somu (Baker island).

Approximate position, lat. 36° 39' N., long. 126° 01' E.

This Notice affects the following Admiralty Charts:—Makau group to Clifford islands, No. 913; approaches to Seoul, No. 1258: Also, List of Lights, part VI., 1906, No. 916; and Sailing Directions for Korea, &c., 1904, page 51.

KOREA, SOUTH COAST.

Uto (Beaufort island) - Ari somu (Sentinel island), and Uru Saki - Lights established.

No. 265 (third publication).—The British Admiralty has given notice (No. 648 of 1906) that the undermentioned lights have been established off the south coast of Korea, in the following positions:—

UTO OR BEAUFORT ISLAND.

A white fixed light (unwatched), elevated 442 feet above high water, and visible in clear weather from a distance of 8 miles from the bearing of S. 66° E., through south and west, to N. 19° E., has been established in a white wooden building, 20 feet high, erected on the eastern end of the island.

Approximate position, lat. 33° 29½' N., long. 126° 58' E.

ARI SOMU OR SENTINEL ISLAND.

A white fixed light, elevated 382 feet above high water, has been established in a white wooden building, 32 feet high, erected on the summit of Ari somu.

Aproximate position lat. 34° 824' N., long. 128° 44' E.

URU SAKI, north-east point of Commemoration bay.

A white fixed light (unwatched), elevated 97 feet above high water, and visible in clear weather from a distance of 8 miles from the bearing of S. 15° W., through west and north, to N. 50° E., has been established in a white wooden building erected on Uru saki, north-east point of cape Tikmenev.

It has been placed on the chart in approximately lat. 35° 30' N., long. 129° 30½' E., and the position marked Uru saki.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admirally Charts:—Nipon, Kiusiu, &c., No. 2347; Shangtung to Nagasaki, No. 3480; Korean archipelago, No. 104; Western coasts of Kiusiu, &c., No. 358: Also, List of lights, part VI, 1908, pages 151, 153; and Sailing Directions for Japan Korea, &c., 1904, pages 89, 104, 130.

KOREA, EAST COAST -- GENSAN.

Korumappo (Muraveva Point) - Light established.

No. 266 (third publication).—The British Admiralty has given notice (No. 649 of 1906) that a red fixed light elevated 187 feet above high water and visible from the bearing of N. 27° E., through east and south, to N. 62° W., has been established in a white wooden building, 20 feet high, erected on the high land of Korumappo or Muraveva Point in the approach to Gensan.

Approximate position, lat. 39° 12½' N., long. 127° 28½' E.

(Variation 5° Westerly in 1906.)

This Notice affects the following Admiralty Chart:—Cape Duroch to Linden Point, No. 1316; port Lazaref, No. 3037: also List of Lights, Part VI, 1906, page 153, and Sailing Directions for Japan and Korea, &c., 1904, page 136.

AUSTRALIA, EAST COAST-QUEENSLAND.

Brisbane river-Quarries Reach channel-Altered lights and buoys moved.

No. 267 (third publication).—The British Admiralty has given notice (No. 653 of 1906) that on and after June 19th the newly-dredged channel through Quarries reach would be open, the Hamilton reach channel having been extended to the eastward to connect

With it.

The leading beacons used for the old channel would be moved to suit the new channel, those formerly situated at a distace of 2½ cables westward from Colmslie pontoon head being shifted 2½ cables S. 66° E. from their former positions, their relative positions being altered to suit the direction of the new channel, viz., S. 67° W. and N. 67° E. from each other; these two beacons or their lights in line S. 67° W. lead through the newly-dredged channel.

Leading beacons will also be established, one on Eagle Farm flats training wall at a distance of 1½ cables N. 14° W. from Bridge Point, and a rear beacon approximately 4 cables No. 67° E. from the front beacon, to assist in passing through the new Quarries reach channel.

These two beacons in line N. 67° E. lead through the new channel.

The red buoy formerly marking the turning point of the Hamilton reach channel and Quarries reach old channel will be moored 2½ cables S. 80° E. to mark the turning point in the new channel.

Approximate position, Colmslie pontoon, lat. 27° 27' S., long. 153° 5' E.

The positions of the above beacons and buoy are approximate, their exact positions not having been given.

(Variation 9° Easterly in 1906.)

This Notice affects the following Admiralty Chart:—Brisbane river, No. 1674; also List of Lights, Part VI, 1906, page 239, No. 1434, Australia Directory, vol. II, 1898, pages 141, 142; and Supplement, 1900, page 7.

CHINA-YANG TSE KIANG, NORTH CHANNEL.

Drinkwater Point-Light and light-buoy to be replaced by light-vessel.

No. 268 (third publication).—The British Admiralty has given notice (No. 654 of 1906) that the Chinese Government intend, probably on July 1st next, to establish a light-vessel (without a crew), exhibiting a white occulting dioptric light every ten seconds, thus:—light, five seconds; eclipse, five seconds, in a position about 3 miles N. 83° W., from Drinkwater Point light and bell-buoy; the light, which will be of the 4th order, will be elevated 35 feet above

the sea, and visible in clear weather from a distance of 11 miles; the vessel will be iron and painted red, having an iron column surmounted by a lantern. A bell, rung by the motion of the vessel, will be suspended on board.

Approximate position, lat. 34° 24½' N., long. 121° 56½' E.

On the establishment of the above light-vessel, the white group flashing light on Drinkwater Point, and Drinkwater Point light and bell-buoy will be discontinued. Further Notice will be given.

(Variation 2° Westerly in 1906.)

This Notice affects the following Admiralty Charts:—Kueshan islands to Yang tse Kiang No. 1199; approaches to the Yang tse Kiang, No. 1602: also List of Lights, Part VI, 1906 page 133, No. 813; and China Sea Directory, vol. III, 1904, page 402.

The 27th July 1906.

St. L. S. Warden, Commdr., R.I.M., Port Officer of Calcutta.



APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, AUGUST 22, 1906.

NOTICES TO MARINERS.

THE following Notices are published for general information.

CALCUTTA, the 17th August 1906.

W. A. INGLIS, Sery. to the Goot. of Bengal.

BAY OF BENGAL-CHITTAGONG COAST.

South Patches light-vessel placed in position.

No. 295 (first publication) .- In continuation of Notice to Mariners No. 26, dated the 12th January 1906, issued by this office, the Port Officer, Chittagong, has given further notice that the South Patches light-vessel was placed in position on the 15th August.

AUSTRALIA, SOUTH-PORT ADELAIDE RIVER.

Dredged channel-Light beacons established.

No. 296 (first publication) .- With reference to Notice to Mariners No. 242, dated the No. 296 (first publication).—With reference to Notice to Mariners No. 242, dated the 3rd July 1906, issued by this office, the British Admiralty has given further notice (No. 762 of 1906) that the erection of light beacons on the port side of the dredged channel when entering Port Adelaide river has been completed. These beacons are painted black, each exhibiting fixed light showing green over the channel and white towards the shore. They are marked G and numbered 0 to 9, commencing from seaward. Each beacon stands 15 feet clear of the channel. No. 0 G, is placed about 3½ cables S 58° W, from the Reflecting beacon at the entrance to the channel. No. 1 G, is about a quarter of a cable S. 51° W, from the Reflecting beacon. No. 2 G, is situated opposite the closed channel about one mile N. 31° E, from the Reflecting beacon. The remaining beacons are placed opposite the beacon of the corresponding number on the other side of the channel.

The red light on the beacon situated 13 cables N. 35° E, from the Reflecting beacon would, on the 1st June, be discontinued.

The dredged channel is now marked throughout by red beacons exhibiting white fixed

The dredged channel is now marked throughout by red beacons exhibiting white fixed lights on the starboard hand on entering, and black beacons exhibiting green fixed lights on the port hand.

Approximate position, Reflecting beacon, lat. 34° 473' S., long. 138° 281' E.

(Variation 5° Easterly in 1906.)

This Notice affects the following Admiralty Chart : - Port Adelaide, No. 1750. Also, Let of Lights, Part VI, 1906, page 206; and Australia Directory, vol. I, 1897, page 352.

STRAITS SETTLEMENTS-SINGAPORE, EASTERN APPROACH, MIDDLE CHANNEL.

Lima islands - Shoal reported south-east of -.

No. 297 (first publication).—The British Admiralty has given notice (No. 769 of 1906) that the Master of the S.S Fallodon reports that his versel struck on a reef, with a depth of 3 fathoms over it, when at a distance of about 6 cables south eastward from Stork reef, Lima islands, in approximately lat. 1° 21½' N., long. 104° 19½' E.

P.D. has been placed against this shoal on the chart.

Mariners are recommended to give these islands a wide berth.

This Notice affects the following Admiral'y Charts:—Banka strait to Singapore, No. 2757; approaches to Singapore, No. 3543; Singapore to Tioman island, No. 2041; Singapore strait, No. 2403: Also, China Sea Directory, vol. I, 1896, page 237.

AUSTRALIA, NORTH-WEST COAST-KING SOUND.

Sund y strait-Shoal reported.

No. 298 (first publication).—The British Admiralty has given notice (No. 770 of 1906) that a reef, with a depth of about one foot over it at low water, is reported to exist in Sunday strait, King sound, in approximately lat. 16° 27½' S., long. 123° 16½' E. "Reported 1906" has been placed against this shoal on the charts. This position, for which no bearings are furnished, might be identical with Amur reef, which is placed on the chart approximately.

This Notice affects the following Admiralty Charts:—Buccaneer archipelago to Bedoup island, No. 1048; Hall point to cape Bertholet, No. 1052: Also, Australia Directory, vol. IIIt 1905, page 192.

EASTERN ARCHIPELAGO-SUMATRA, NORTH COAST.

Pulo Bras group-Dangers in the vicinity.

No. 299 (first publication). - The British Admiralty has given notice (No. 774 of 1906) of the existence of the undermentioned dangers, and the non-existence of another, in the vicinity of the Pulo Bras islands, as follows:-

(1) Lampujang strait. The shoals at the western entrance to this strait, off the north-western point of Nasi Besar, extend about half a cable further out than shown on the chart. There is a depth of 3½ fathoms on this extension.

At a distance of 4½ cables S. 75° W. from the south point of Pulo Bras is the south-

eastern extremity of a ridge, which extends from this position $4\frac{4}{10}$ cables in a north-westerly direction, having a breadth of about four-tenths of a cable. The least depth found on this ridge was $2\frac{1}{2}$ fathoms at low-water springs.

Approximate position, Pulo Bras, south point, lat. 5° 39½' N., long. 95° 10½' E.

(2) Gepon islets. The reef extending to the southward from these islets does not

Approximate position, lat. 5° 36' N., long. 95° 5' E.

(3) The least depth on the shoal of 41 fathoms between Pulo Batu and Pulo Kelapa was found to be 21 fathoms.

Approximate position, lat. 5° 33 V., long. 95° 123' E.

The positions refer to chart No. 219.

(Variation 1º Easterly in 1906.)

This Notice affects the following Admiralty Chart: - Acheh head to Diamond point, with plan of Lampujang strait, No. 219: Also, China Sea Directory, vol. I, 1896, pages 43, 44.

CHINA, NORTH-YELLOW SEA-MANCHURIA.

Port Arthur er. Lushan Kau approach-Shoal off Lao Lui Chui.

No. 300 (first publication).—The British Admiralty has given notice (No. 782 of 1906) of the existence of a rock, with a depth of 4½ fattoms over it, in the approach to Port Arthur, situated in a position from which Lao Lui Chui bears N. 36° W., distant 2 to cables. At a distance of about four-tenths of a cable north-westward from this rock there is a rocky head with a depth of 2; fathoms over it; there is a depth of 9 fathoms between them, and from 12 to 17 fathoms around both rocks.

Approximate position, lat. 38° 4' N., long. 121° 19½' E.

(Variation 4º Westerly in 1903.)

This Notice affects the following Admiralty Charts: - Pechili strait, No. 1392; Kuangtunt peninsula, No. 1798: Also, China Sea Directory, vol. III, 1904, pages 591, 592.

CHINA, NORTH-YELLOW SEA-MANCHURIA.

Port Arthur or Lushan Kau-Wreck in approach.

No. 301 (first publication).—The British Admiralty has given notice (No. 783 of 1906) that a wreck, with a depth of 10 fathoms over the hull, lies sunk in the approach to Port Arthur, situated in a position from which the 515 foot hill south-westward of Chikwan shan bears N. 15° W., distant 1 miles, and the Port Arthur light, western side of entrance, N. 22° E. There is no mention of masts projecting in the Notice received.

Approximate position, lat. 38° 443' N., long. 121° 144' R.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Charts:—Gulf of Pechili, No. 1798; Kwantung peninsula, No. 192; Port Arthur, No. 1236: Also, China Sea Directory, vol. III, 1904, page 592.

JAPAN-GULF OF TARTARY-KARUFUTO (SAKHALIN) ISLNAD SOUTH COAST.

Kushunkotan (Korsakovsk) road-Light established-Storm signals.

No. 302 (first publication).—The British Admiralty has given notice (No. 784 of 1906) that a white fixed light, elevated 201 feet above high water, and visible in clear weather from a distance of 12 miles, has been established on a white staff, 18 feet high, in place of the former light exhibited on the hill to the northward of Kushunkotan or Korsakovsk.

Approximate position, lat. 46° 383' N., long. 142° 451' E.

A storm signal station has been established at Kushunkotan. The church, the beacons, and the mill at Kushunkotan, and the beacons at Poroan tomari (Ainskoe settlement), 1; miles to the southward, have all disappeared.

This Notice affects the following Admirally Chart:—Plan of Korsakovsk road on char, No. 2192: Also, List of Lights, part VI, 1906, No. 1165; and Sailing Directions for Japan etc., 1904, pages 238, 239.

BAY OF BENGAL-CHITTAGONG COAST.

Karnafuli river-Depth of water in the channels.

No. 303 (first publication).—The Port Officer, Chittagong, has given notice that the following depth of water was found in the channels by soundings taken on the 17th August and reduced to zero:—

Track No. 1—Outer bar— Disc on diamond		"			14	0
Track No. 2—Inn:r bar— Disc on diamond Batten beacon on pillar		**************************************	Tour en oin al		11 12	6
Track No. 3— Triangle on cross and ball				***	20	0
Track No. 4—Guptakhally ord Tripod on diamond	essing —		***	•••	20	0

distributed for the good of the state of

The 20th August 1906.

JAPAN-NAIKAI (INLAND SEA).

Shimonoseki (Simonoseki) strait, Moji shoal-Aiteration in position of light-buoys.

No. 279 (second publication).—With reference to Notice to Mariners No. 309, dated 12th August 1905, issued by this office, the British Admiralty has given further notice (No. 706 of 1906) that the light-buoy, marking the north-east end of Moji shoal, situated at a distance of 6½ cables S. 73° E. from the Observation spot, Simonoseki, has been moved about half a cable N. 34° E. from its former position and is now situated at a distance of about half a cable N. 34° E. from its former position, and is now situated at a distance of 6½ cables S. 78° E. from the Observation spot.

Also, that the light-buoy, marking the south-west end of Moji shoal, situated at a distance of 5½ cables S. 23° E. from the Observation spot, has been moved about three-quarters of a cable South from its former position, and is now situated at a distance of 6 cables S. 20° from the Observation spot.

Approximate position, Observation spot, lat. 33° 57½' N., long. 130° 56½' E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admirally Charts:—Simonoseki strait, Nos. 532 and 1578; Moji ko, No. 3114: Also Sailing Directions for Japan, 1904, page 502.

JAPAN-GULF OF TARTARY-KARAFUTO (SARHALIN) ISLAND, WEST COAST.

Lesovskago bay-Shoal reported.

No. 280 (second publication).—The British Admiralty has given notice (No. 707 of 1906) that a shoal having a depth of 2 fathoms over it is reported to exist in Lesovskago bey, in approximately lat. 49° 14' N., long. 142° 1' E.

This shoal, which is composed of hard sand and mud, is one mile long in a northerly and southerly direction and 5 cables broad, the general depths over it are from 2 to 3 iathoms and there is a depth of 4 fathoms on its southern end, but the northern end was not

examined.

This Notice affects the following Admiralty Charts: - Gulf of Tartary, No. 8340: Also, Sailing Directions for Japan, &c., 1904, page 231.

KOREA, WEST COAST.

Taidong kang (Ping Yavg inlet) - Extension of sand bank.

No. 281 (second publication.—The British Admiralty has given notice (No 708 of 1906) that a sand bank, with a depth of 2 fathoms over it at low water, is reported to exist in the entrance to Taidong kang or Ping yang inlet, in a position from which the north-western point of Dau chen bears S. 56° W., distant 11 cables, and the north-eastern point of the same island S. 22° E. This sand bank appears to be connected with the line of shoals extending weekward from Litt churre to extending westward from Utt chu ra to.

Approximate position, lat. 38° 40½' N., long. 125° 0½' E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Charts:—Approaches to Ping yang inlet, No. 1257; Ping yang inlet, No. 1656: Also, Sailing Directions for Japan, &c., 1904, pages 39-41.

AUSTRALIA-New South Wales.

Newcastle harbour-Decreased depth in entrance.

No. 282 (second publication).—With reference to Notice to Mariners No. 439, dated 20th December 1904, issued by this office, the British Admiralty has given further notice (No. 713 of 1906) that as the depths in the fairway of the entrance to Newcastle harbour have decreased, the signals made from the Pilot station will, until further notice, indicate each foot of rise or fall above 18 feet, and not 20 feet as before.

When abreast Nobby head vessels will find rather more water to the southward of the leading line of the towers.

leading line of the towers.

Approximate position, lat. 32° 55' S., long. 151° 49' E.

This Notice affects the following Admiralty Chart: - Newcastle hartour, No. 2119: Also Australia Directory, vol. II, 1898, page 80.

EASTERN ARCHIPELAGO -SUMATRA-MALACCA STRAIT-THE BROTHERS.

Pulo Hiju Kechil-Light established.

No. 283 (second publication).—With reference to Notice to Mariners No. 120, dated 7th April 1906, issued by this office, the British Admiralty has given further notice (No. 715 of 1903) that a white flashing light, every twenty seconds, thus:—light, four seconds, eclipse, sixteen seconds, elevated 131 feet above high water and visible in clear weather from a distance of 17 miles, has been established in a white framework iron structure, 44 feet high, having at its base a white wooden dwelling with red tiled roof, erected on Pulo Hiju Kechil, the easternmost of the Brothers islands.

The light is of the 4th order and produced by acetylene gas.

Approximate position, lat. 1° 11½' N., long. 103° 21½' E.

. This Notice affects the following Admiralty Charts:—Malacca strait, No. 1355; cape Rachado to Singapore, No. 795; approaches to Singapore, No. 3543; Singapore strait, No. 2403: also List of Lights, Part VI, 1906, page 71; China Sea Directory, vol. I, 1896, page 113; and Supplement, 1899, page 12.

OHINA, EAST COAST.

Lamock islands-Shoal westward of -.

No. 284 (second publication).—The following Notice to Mariners (No. 721 of, 1906) issued by the British Admiralty is republished:—

Information, dated 14th May 1906, has been received from Commander E. LaT. Leatham, H.M.S. Alacrity, that when westward of Lamock islands a sounding of 6 fathoms was obtained from on board his vessel, in a position from which Sul rock bore N. 36°. W., distant 5½ miles.

Approximate position, lat. 23° 13½' N., long. 117° 10¾' E.

Vessels should avoid this shoal as there may be less water on it.

(Variation Nil in 1906.)

This Notice affects the following Admirally Charts: -Hong-Kong to the Brothers, No. 1962; Namea island, No. 1957: also China Sea Directory, vol. III, 1904, page 158.

INDIAN OCEAN-MADAGASCAR, WEST COAST.

Tulléar bay - Shoal extending - Beacons altered.

No. 285 (second publication).—The British Admiralty has given notice (No. 724 of 1906) that the shoal off Anosi point at the mouth of the river Fiherenana is extending seaward, the shoal water now having reached the peaked line denoting the fairway. This line requires moving slightly to the westward.

The beacon westward of Anosi and the Anosi flag staff, 6 cables to the eastward of it, have disappeared, but a wooden tripod beacon, the position of which has not been determined,

has been erected in this vicinity.

A pole beacon, surmounted by a diamond shape painted white, has been erected on the coast N. 53 W. from Table mountain. This beacon in line with Table mountain S. 53° E. leads up to the entrance of Tulléar channel until Great Reef beacon bears south, whence the course should be altered as requisite.

Approximate position, Tulléar channel, lat. 23° 21' S., long. 43° 37' E.

(Variation 15° Weasterly in 1906.)

This Notice affects the following Admiralty Chart: -St. Augustine and Tulléar bays, No. 692: also Islands of the Southern In tian Ocean, 1904, page 251.

KOREA, WEST COAST.

Amu Nyoku kan (Yalu river) - Buoys established in southern approach.

No. 286 (second publication).—The British Admiralty has given notice (No. 725 of 1906) that the undermentioned buoys have been established in the southern approach to Amu Nyoku kan or Yalu kiang in the following positions:—

(1) A black conical buoy with topmark, marked No. 1, in approximately lat. 39° 35% N., long. 124° 22% E.

N., long. 124 224 E.

(2) A light-buoy, painted red, marked No. 2, exhibiting a white fixed light, in approximately lat. 39° 30½′ N., long. 124° 21¾′ E.

(3) A black conical buoy with topmark, marked No. 3, in approximately lat. 89° 45½, N., long. 124° 24½ E.

(4) A red conical buoy with topmark, markel No. 4, in approximately lat. 39° 46' N.

long. 124° 243′ E.

(5) A black conical buoy, marked No. 7, in approximately lat. 39° 464' N., long. 124° 24′ E.

(6) A black conical buoy, marked No. 9, in approximately lat. 39° 47½ N., long. 124° 231' E.

This Notice affects the following Admiralty Charts:—Pe chili and Liau tung gulfs No. 1256; approaches to Ping Yang inlet, No. 1256; also Sailing Directions for Japan, etc. 1904, page 37; and China Sea Directory, vol. III, 1904, page 577.

CHINA, SOUTH-EAST COAST.

Good Hope cape-Shoal to the north eastward.

No. 287 (second publication).—The British Admiralty has given notice (No. 731 of 1906) of the existence of a rock, with a depth of 4½ fathoms over it, situated at a distance of about 5 cables N. 75° E. from Good Hope cape light-house in the approach to Swatau. This shoal, which is about one mile in extent, is still under examination: less water may therefore be found over it.

Approximate position on chart No. 854, lat. 25° 14½' N., long. 116° 49' E.

(Variation Nil in 1906.)

This Notice affects the following Admiralty Charts: - Hong Kong to the Brothers, No. 1962; Namoa island, No. 1957; port of Swatau, No. 854: Also, China Sea Directory, vol. III, 1904, page 147.

JAPAN SEA-PETER THE GREAT BAY.

Caution-Vladivostock approach-Submarine mines.

No. 288 (second publication).—The British Admiralty has given notice (No. 737 of 1906) that submarine mines were laid during the late war between Russia and Japan by both belligerents, extending apparently as far southward in Ussuri bay as a line joining Askold island to the Rimskago Korsakofa islands, a distance of about 40 miles. Damage has been

caused to several steam-vessels approaching Vladivostock from the south-eastward by coming in contact with either fixed or drifting mines.

The Russian Government has given Notice, dated 6th June 1906, that a temporary white fixed light was established on 4th May last, in a light-house in course of construction on Cape Gamova, to assist in the navigation of the channel to Vladivostock by its western approach through Amur bay, which channel should be used until notice is issued that the eastern approach is free from danger. issued that the eastern approach is free from danger.

Vessels, therefore, bound to Vladivostock should make cape Gamova. a Berlin Notice, the route thence to be followed is to pass westward of Rimskago Korsakofa, Stenin, and Tsivolko, with Popova and Kozakevicha close aboard, to the Eastern Bosporus. A fog siren would be established, probably in June, at Gamova light-house.

Approximate position lat. 42° 354' N., long. 131° 124' E.

This Notice affects the following Admiralty Charts:—Tumen Ula to Strelok bay, No. 2432; Trinity bay to Eastern Bosporus, No. 511; Ussuri bay, No. 288; Eastern Bosporus, No. 2011: Also, List of Lights, Part VI, 1906, page 189; and Sailing Directions for Japan, &c., 1904, pages 162, 177, 178.

AUSTRALIA- VICTORIA-HOBSON BAY.

Gellbrand point light—Date of exhibition—Buoys to be withdrawn.

No. 289 (second publication) —With reference to Notice to Mariners No. 142, dated 23rd April 1906, issued by this Office, the British Admiralty has given further notice (No. 746 of 1906) that a pile lighthouse having been constructed in the position formerly occupied by Gellibrand light vessel, viz.,—8 cables South from the green light on the breakwater extending from Gellibrand point, Hobson bay, on and after 1st August next, an occulting light every eighteen seconds, elevated 50 feet above high water, and visible in clear weather from a distance of 12 miles will be established in that structure. It will show the following from a distance of 12 miles, will be established in that structure. It will show the following sectors:—red, fifteen seconds; eclipse, three seconds from the bearing of N. 63° E. to N. 39° E.; white, six seconds; red, three seconds; white, six seconds; eclipse, three seconds from N 39° E, through north, to N. 33° W.; red. fifteen seconds; eclipse, three seconds from N. 33° W., through west, to S. 63° W.; white, six seconds; red, three seconds; white, six seconds; eclipse, three seconds, from S. 63° W., to South.

The undermentioned aids to navigation placed to mark the works in progress will be

withdrawn on the same date :-

- The light-buoy exhibiting a red fixed light moored 400 feet eastward of the lighthouse constructing.
- The vessel from which rockets will be fired, during thick or foggy weather. moored 400 feet southward of the light-buoy.
- The white fixed light exhibited from the eastern end of the works whilst the lighthouse was under construction.
- The red flag displayed when pile driving was in progress.

Approximate position, lat. 37° 523′ S., long. 144° 55′ E.

The exact position of the lighthouse is not stated.

(Variation 8º Easterly in 1966.)

This Notice a feets the following Admira'ty Charts:—Port Philip, No. 1171b; Hobson bay, No. 624: Also, List of Lights, part VI, 1906, No. 1320; Australia Directory, vol. I, 1897, page 459; and Supplement, 1900, page 17.

INDIA, WEST-BOMBAY COAST.

Bom! ay harbour approach-Present position of wrecked Schooner No. 1.

No. 290 (second publication). With reference to Notice to Mariners No. 261, dated 25th July 1906, issued by this Office, the Bon.bay Government has given further notice (No. 75 of 1906) that the position of the wrecked Schooner No. 1 now is about N. E. from the Light Vessel, one mile.

Bearings from the wreck are-

Light Vessel S. W. (T) Malabar Point North (T). Prongs Light House N. by E. (T).

AUSTRALIA-BROADMOUNT HARBOUR.

Fitzroy river, No. 3 Lead, Middle channel-Sandbank extending southward.

No. 291 (second publication).—The Portmaster, Brisbane, has given notice (No. 4 of 1906) that the small sandbank in No. 3 Lead, Middle Channel, Fitzroy River, having grown to the southward, the depth in the centre of the Lead is now only 7 feet 6 inches. Masters are therefore recommended to keep the dolphus of this Lead open their own width to the southward, when a depth of 19 feet at low water will be obtained.

Charts affected-Nos. 345 and 363, Australia Directory, vol. 2.

AUSTRALIA-PORT WAKEFIELD APPROACH.

Gulf of St. Vincent, east side-Existence of isolated and scattered rocks-Navigation dangerous.

No. 292 'second publication').—The President of the Marine Board, Port Adelaide, has given notice (No. 12 of 1906) that isolated and scattered rocks having at various times been reported as existing on the flats between Long Spit and Bald Hill, and some of them being said to have 6 feet less water over them than is shown on the chart, masters of vessels and others are hereby warned against navigating in less water than, say, 6 feet over their draught.

over their draught.

These flats, for about three miles seaward from high-water mark, may be considered

as foul ground.

This affects Admiralty Chart No. 2389 B.

AUSTRALIA-KANGAROO ISLAND.

Kingscote-Character of lights to be exhibited.

No. 293 (second publication).—The President of the Marine Board, Port Adelaide, has given notice (No. 13 of 1906) that in future the following lights will be exhibited at Kingscote, Kangaroo Island, viz.—

(1) From a white painted house on the rise at the inner end of the jetty, a fixed white light showing to seaward over the jetty, and visible in clear weather a distance of eight (8) miles.

(2) From a post on the outer end of the jetty, a light, showing red to seaward and white to landward over the jetty, at a height of thirteen (13) feet above H.-W., and visible in clear weather about four (4) miles.

The two lights in line lead over the Telegraph Bell Buoy, and bear from it N. 74° W. correct magnetic.

Approximate position of high light—Lat. 35° 40′ S.; long. 137° 38′ 30° E.

This affects Admiralty Chart No. 2389B.

The 10th August 1906.

INDIA WEST-BOMBAY COAST.

Bombay harbour approach.—A green painted "Wreck" buoy placed.

No. 294 (second publication).—In continuation of Notice to Mariners No. 290, dated the 10th August, issued by this office, the Bombay Government has given further notice, dated 8th idem, that a wreck buoy painted green with the word "Wreck" in white letters on its side has been placed on the East or Mid-channel side of the wreck of Pilot Schooner No. 1—From the buoy the following are True bearings:—

A CALL				NT 010 T	
Propes Light House			•••	N. 9½° E. N. 34° E.	Ñ
Prongs Light House Sunk Rock Light House		•••			
Thull Knob Beacon	***			S. 70½° E.	

The 13th August 1906.

. INDIA, WEST-BOMBAY COAST.

Bankote Outer buoy adrift.

No. 269 (third publication).—The Bombay Government has given notice (No. 72 of 1906) that the Bankote outer buoy broke adrift from its moorings on the 23rd ultimo and was washed ashore at Velas, which is a village close to Bankote.

INDIAN OCEAN-MADAGASCAR-DIEGO SUAREZ BAY.

Antsirana light - Sectors established.

No. 270 (third publication).—The British Admiralty has given notice (No. 673 of 1906) that on 1st January last the red fixed light on Antsirana jetty, Diego Suarez bay, was altered to show the following sectors:—red from the bearing of S. 64° W. to S. 54° W. white from S. 54° W. to S. 47° W., green from S. 47° W. to S. 34° W., white from S. 34° W., through south and east, to N. 56° E., green from N. 56° E. to N. 7° E., being obscured in other directions; it is elevated 29 feet above high water.

Approximate position, lat. 12° 16′ S., long. 49° 18′ E.

(Variation 7º Westerly in 1906.)

This Notice affects the following Admirally Charts:—Diego Suarez bay, No. 1116; plan of Port Nièvre on chart No. 1064: Also List of Lights, Part VI, 1906, No. 102, and Islands in the Southern Indian Ocean, 1904, page 62.

EASTERN ARCHIPELAGO-Borneo, WEST COAST.

Pontianak river-Prohibited anchorage in approach marked by buoys and beacons.

No. 271 (third publication).—The British Admiralty has given notice (No. 678 of 1906) that anchorage is prohibited on account of telegraph cables in the approach to the Pontianak river, within the limits which are defined by imaginary lines drawn between two buoys now established and the shore:-

Southern buoy

(1) A white can buoy, marked "Telegraaf Kabel No. 1," has been moored in a position about 3 miles from the coast in approximately lat. 0° 1' 25" S., long. 109° 6' 25" E.

Northern buoy-

(2) A white can buoy, marked "Telegraaf Kabel No. 2," has been moored about 2 cables N. 16° E. from the above buoy.

The limits are also marked by beacons on shore, but the position of the beacons is not given.

This Notice affects the following Admiralty Chart :- Eastern Archipelago, No. 941a : Also China Sea Directory, vol. 11, 1899, page 39; and Supplement, 1901, page 3.

EASTERN ARCHIPELAGO-Borneo, BAST COAST.

Balik Papan bay-Lights of prohibited anchorage altered-Buoy shifted.

No. 272 (third publication).—With reference to Notice to Mariners No. 35, dated 24th February 1905, issued by this office, the British Admiralty has given further notice (No. 679 of 1906) that the southern limit of the prohibited anchorage in Balik Papan bay has been altered so that it is now limited by a line extending S. 20° W. from the southern point of Tokong island to No. 4 buoy in the fairway. No. 4 buoy has therefore been replaced by the black buoy formerly situated at a distance of 13 cables S. 88° W. from the south point of Tokong. The northern limit is now a line drawn from the cable-house to the black buoy situated 14½ cables N. 80° W. from the south point of Tokong island.

Approximate position, Tokong, lat. 1° 16' S., long. 116° 48' E.

(Variation 2º Westerly in 1906.)

This Notice affects the following Admiralty Plans :- Balik Papan bay and anchorage off the East point of Balik Papan bay on No. 3031: Also Eastern Archipelago, Part II, 1904, page 290.

PACIFIC OCEAN, SOUTH-TUAMOTO ARCHIPELAGO-TAKARAVA ATOLL.

Rotoava approach - Temporary beacons erected.

No. 273 (third publication) .- With reference to Notice to Mariners No. 221, dated 26th June 1906, issued by this office, the British Admiralty has given further notice (No. 681 of of 1906) that the beacon on the western point of the entrance to North passage, and other beacons in the approach to Rotoava having been destroyed by a cyclone, the following temporary beacons have been erected in the undermentioned positions:—

- (a) Three white beacons on Poniu, near the entrance to the North passage; vessels must pass to the southward of these beacons.
- (b) A white beacon on Togamaitu i tai, Togamaitu i uta, Tapaeroa, and Kopoapiro shoals.
- (c) A white beacon surmounted by a ball, on the shoal situated at a distance of 1 to miles S. 58° W. from Rotoava light.
- (d) A white beacon on the shoal situated about 71 cables S. 16° W. from Rotoava · light.

Approximate position, Rotoava light, lat. 16° 24' S., long. 145° 384' W.

Mariners are warned that great care must be exercised in navigating these waters.

(Variation 8° Easterly in 1906.)

This Notice affects the following Admiralty Chart: — Plan of Rotoava on chart No. 1175: Also Pacific Islands, vol. III, 1900, pages 133, 134; and Supplement, 1903, page 9.

FOG SIGNALS-ADMIRALTY LISTS OF LIGHTS.

Cautionary Notices.

No. 274 (third publication).—The following Notice to Mariners, issued by the British Admiralty (No. 682 of 1906), is republished for general information:

As the cautionary Notices respecting fog-signals given in the Introductory notes in all copies of the Admiralty Lists of Lights do not appear to be quite understood, more especially the paragraphs pointing out that such signals are heard at greatly varying distances, and that there are occasionally areas around a fog-signal station in which the fog-signal is wholly that there are occasionally areas around a fog-signal station in which the fog-signal is wholly inaudible, it is thought desirable to point out to seamen that not infrequently a fog-signal, which may be heard under favourable circumstances from a distance of 10 miles or upwards, is inaudible when only 2 or 3 miles off it, and that no surprise should be felt if, from a vessel, either at anchor, or underway, not far from a fog-signal station, the sound of the fogsignal is not heard on board.

CHINA, SOUTH COAST-Hong HAI BAY.

Sam Chau inlet-Outer bank extending-Leading beacons removed.

No. 275 (third publication).—The British Admiralty has given notice (No. 689 of 1906) that information has been received that soundings taken by the Chinese Revenue schooner Péng tei, on the 7th April 1906, show that the Outer bank in Sam Chau inlet is extending to the southward and westward. The channel is now not more than one cable in width, and is stated to have a depth of 31 feet at low water.

The leading beacons have been removed.

This inlet should not be entered without a previous examination of the entrance.

Approximate position, Outer bank, lat. 22° 41' N., long. 114° 59' E.

This Notice affects the following Admiralty Chart: -Sam Chau inlet, No. 3459: Also China Sea Directory, vol. III, 1904, page 137.

EASTERN ARCHIPELAGO-SUMATRA, NORTH-RAST COAST.

Straits of Durian and Berhala-Light buoys established.

No. 276 (third publication).—With reference to Notice to Mariners No. 232, dated 26th June 1906, issued by this office, the British Admiralty has given further notice (No. 692 of 1906) that, on 19th and 18th of May 1906, respectively, the undermentioned light-buoys were established in the straits of Durian and Berhala in the following positions:—

(a) STRAIT OF DURIAN. A light-buoy, painted white, exhibiting a white occulting light every twenty seconds, thus:—light, ten seconds; eclipse, ten seconds; on the north-eastern side of Richardson reef.

Approximate position, lat. 0° 371 N., long. 103° 43' E.

(b) Berhala Strait. A light-buoy, painted in red and black horizontal bands, exhibiting a white occulting light every twenty seconds, thus:—light, ten seconds; eclipse, ten seconds, on the south-eastern side of Speke rock.

Approximate position, lat. 0° 37' S., long. 104° 6' E.

This Notice affects the following Admiralty Charts:—Banka strait to Singapore, No. 2757; strait of Durian, No. 2402; channels between Sumatra and Linga, No. 1789: Also China Sea Directory, vol. I, 1896, pages 557, 546; and Supplement, 1899, page 41.

CHINA, SOUTH-EAST COAST-PAGODA ISLAND.

Tongsang harbour-Shoal reported in entrance to-

No. 277 (third publication).—The British Admiralty has given notice (No. 696 of 1906) that the Master of S.S. Yunnan reports that his vessel struck on a shoal, with a depth of 13 feet over it at low-water spring tides, in entrance to Tongsang harbour, in a position 2 miles south from the pagoda on Pagoda island. A sounding of 8 tathoms was obtained immediately before striking.

Approximate position, lat. 23° 42' N., long. 117° 32%' E.

(Variation nil in 1906.)

This Notice affects the following Admiralty Charts :- Formosa island, &c., No. 1968; The Brothers to Ocksen islands, No. 1760; Tongsang harbour, No. 1958: Also China Sea Directory, vol. III, 1904, page 162.

PACIFIC OCEAN-PHILIPPINE ISLANDS-NEGROS AND LEITE.

Dumaguete and Kanigao islands-Lights established.

No. 278 (third publication).—The British Admiralty has given notice (No. 699 of 1906) that lights have been established at the undermentioned places in the Philippine islands:—

(a) Dumaguete, Negros island. A red fixed light, elevated 38 feet above high water, visible in clear weather from a distance of 7 miles, from the bearing of S. 27° W., through west, to N. 15° W., and exhibited from a white framework tower, 34 feet high, erected near the beach at Dumaguete.

Approximate position, lat. 9° 183' N., long. 123° 171' E.

(b) Kanigao island, Leite island. A red fixed light, elevated 62 feet above high water, visible in clear weather from a distance of 9 miles, and exhibited from a white framework tower, 52 feet high, erected on the north-eastern point of Kanigao island.

Approximate position, lat. 10° 15' N., long. 124° 441' E.

The positions refer to chart No. 2578.

(Variation 1º Easterly in 1906.)

This Notice affects the following Admiralty Charts:—The Philippine islands, No. 943; Sulu or Mindoro sea, No. 2578: Also List of Lights, Part VI, 1906, pages 101, 103; Eastern Archipelago, Part I, 1902, pages 274, 290; and Supplement, 1905, page 20.

St. L. S. WARDEN, COMMDR., R.I.M., Port Officer of Calcutta.



APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, AUGUST 29, 1906.

NOTICES TO MARINERS.

THE following Notices are published for general information.

CALCUTTA, the 28th August 1906.

W. A. Inglis, Secy. to the Gort. of Bengal.

AFRICA, NORTH-EAST-RED SEA.

Shoal reported.

No. 304 (first publication).—The Bombay Government has given notice (No. 82 of 1906) that the Master of S. S. Africa reported that on 26th July 1906; the ship was observed in shoal water and on sounding obtained 2 fathoms on the following bearings:—

N. W. Point Ras Mujamela Island N. 27¼° E. (T). Extreme South Point of above Island S. 78° E. (T).

Soundings obtained from $1\frac{1}{2}$ fathoms, gradually increasing to the eastward up to 4 and 5 fathoms.

Approximate position— Latitude 14:33½ N. Longitude 42:52½ E.

This notice affects the following Admiralty Charts: — Red Sea (General Chart), No. 2523; Red Sea, Sheet V, No. 8E; and Jabel Teir to Perim Island, No. 143; also Red Sea and Gulf of Aden Pilet, fifth edition, 1900, page 337.

AFRICA, NORTH-EAST-GULF OF ADEN.

Aden anchorage-Channel buoys.

No. 305 (first publication).—The Bombay Government has given notice (No. 83 of 1906) that on the 20th August 1906, the three Port hand Channel buoys in the inner harbour of Aden will be moved and relaid on the following bearings:—

ill be moved and relaid on the following bearings:—

1. Western buoy—from old position

Ras Marbut Flagstaff

Residency Flagstaff

Clock Tower

Flagstaff Tarshein Point

Quarantine Island Flagstaff

... S. 55½° E. (T) 25 yards.

S. 40° E. (T).

S. 78¾° E. (T).

S. 2° E. (T).

N. 83½° E. (T).

... S. 17½° W. 110 yards. ... S. 8½° W. (T). ... S. 64° E. (T). 2. Centre buoy-from old position Ras Marbut Flagstaff Clock Tower ... S. 21 5° E. (T). Signal Station Flagstaff ... N. 88° E. (T). Quarantine Island Flagstaff ... South (T) 67 yards. ... S. 391° W. (T). ... S. 27° W. (T). Eastern buoy—from old position Ras Marbut Flagstaff ... Clock Tower 8. 10° W. (T). Signal Station Flagstaff S 804° E. (T). Quarantine Island Flagstaff

This notice affects the following Admiralty Charts:—Gulf of Aden, Sheet II, Western portion No. 60; Aden and adjacent bays. Aden Anchorage, No. 7; Red Sea, Sheet V, No. 8E; and Arabian Sea, No. 1012; and Red Sea and Gulf of Aden Pilot, fifth edition, 1960, page 350, and Supplement, 1904, relating to Red Sea and Gulf of Aden Pilot, page 39.

NEW ZEALAND-North Island, West COAST.

Kaipara bar-Additional beacon erected.

No. 306 (first publication).—With reference to Notice to Mariners No. 198, dated 10th June 1905, issued by this office, the British Admiralty has given further notice (No. 790 of 1906) that the front of the two beacons erected on the North Head, Kaipara harbour, being difficult to distinguish, a middle and larger beacon, 42 feet high, has been erected at a distance of 1.20 cables N. 52° E., from the front beacou. The heights of the beacons are—front beacon 32 feet, middle beacon 44 feet, rear beacon 42 feet. These beacons in line N. 52° E. lead over the bar.

Approximate position, lat. 36° 23' S., long. 174° 81' E.

(Variation 13° Westerly in 1906.)

This Notice affects the following Admiralty Chart: - Kaipara harbour, No. 2614: - Also New Zealand Pilot, 1901, page 244; and Supplement, 1903, page 24.

INDIA, SOUTH-CEYLON, WEST COAST.

.Colombo harbour-Northern passage open.

No. 307 (first publication).—The British Admiralty has given Notice (No. 791 of 1906) that the northern engrance between the North-east and North-west breakwaters, Colombo harbour, is open for the passage of vessels.

Further Notice will be given when information respecting the lighting of this passage

has been received.

Approximate position, lat. 6° 58' N., long. 79° 51' E.

This Notice affects the following Admirally Chart:—Colombo harlour, No. 914: Also West Coast of Hindustan Pilot 1898, page 95; Supplement, 1903, page 5; Bay of Bengal Pilot, 1901, page 73; and Supplement, 1903, page 1.

AFRICA, EAST COAST-Tanga HARBOUR.

Lights estalished.

No. 308 (first publication).—The British Admiralty has given notice (No. 798 of 1906) that a green fixed light is exhibited from the flag-taff in front of the Custom House, Tanga.

Approximate position of Custom House on chart No. 663, lat. 5° 4½ S., long. 39° 6½ E.

Also, that two white fixed lights are exhibited from two iron poles situated at each extremity of the iron pier.

This Notice affects the following Admiralty Charts: - Mansa and Tanga bays, No. 663:
Also, Light of Lights Part VI, 1905, page 13; and Africa Pilot, Part III, 1905, page 456.

PACIFIC OCEAN, SOUTH-NEW CALEDONIA.

Port Noume approach - Beacon disappeared.

No. 379 (first publication).—The British Admiralty has given notice (No. 805 of 1906) that the iron beacon on the westernmost of the Four Northern banks, port Noumea approach, formerly situated about 7½ miles S. 40° E. from port Noumea flugstaff, has disappeared.

Approximate position of flagstaff, lat. 22° 164' S., long. 166° 264' E.

(Variation 10° Easterly in 1906.)

This Notice affects the following Admiralty Charts: — Uen island to St. Vincent bay, No 2907; approaches to port Noumea, No. 2069: Also Pacific Islands, vol. II, 1900, page 310.

CHINA, EAST COAST-FUCHAU.

Min river-Rock reported in approach.

No. 310 (first publication) .- The British Admiralty has given notice (No. 810 of 1906) that a rock, with a depth over it of 1½ fathoms at low-water springs, is reported to exist in the approach to the river Min, situated at a distance of 11 cables N. 10° W. from the summit (295 feet) of Chingau island. No bearings are given: the position therefore must be considered approximate.

Approximate position, lat. 26° 154' N., long. 119° 59½' E.

(Variation 1º Westerly in 1906.)

This Notice affects the following Admiralty Charts:—Ockseu island to Tung yung, No. 1761; River Min, No 2400: Also China Sea Directory, vol. III, 1904, page 269.

JAPAN-KIUSIU, WEST COAST.

Nagasaki harbour-Shoal in approach-Beacon disestablished-Colour of buon.

No. 311 (first publication).—The British Admiralty has given notice (No. 813 of 1906) of the existence of a shoal, with a depth of 5% fathoms over it, in the southern approach to Nagasaki harbour, situated in a position from which Kajikake beacon bears S. 38° W., distant 12 cables, and the northern end of Goroye shima S. 76° E.

Approximate position, lat. 32° 414' N., long. 129° 494' E.

Also, that the beacon marking Minage zaki, Nagasaki harbour, has been removed.

Note —On certain copies of Admiralty Chart No. 2815 the colour of the buoy marking Osone, situated about 6 cables S. 28° E. from Nezumi jima, is shown as red, instead of red and black horizontal hands.

(Variation 4º Westerly in 1906.)

This Notice affects the following Admiralty Charts:—Nagasaki harbour, Nos. 2415 and 2815: Also Sailing Directions for Japan, &c., 1904. pages 550, 551, 552.

BAY OF BENGAL-CHITTAGONG COAST,

South Patches light-vessel placed in position.

No. 295 (second publication).—In continuation of Notice to Mariners No. 26, dated the 12th January 1906, issued by this office, the Port Officer, Chittagong, has given further notice that the South Patches light-vessel was placed in position on the 15th August.

AUSTRALIA, SOUTH-PORT ADELAIDE RIVER.

Dredged channel-Light beacons established.

No. 296 (second publication).—With reference to Notice to Mariners No 242, dated the 3rd July 1906, issued by this office, the British Admiralty has given further notice (No. 762 of 1906) that the erection of light beacons on the port side of the dredged channel when entering Port Adelaide river has been completed. These beacons are painted black, each exhibiting fixed light showing green over the channel and white towards the shore. They

are marked G and numbered 0 to 9, commencing from seaward. Each beacon stands 15 feet clear of the channel. No. 0 G, is placed about 3\frac{3}{4} cables S 58° W, from the Reflecting beacon at the entrance to the channel. No. 1 G, is about a quarter of a cable S. 51° W, from the Reflecting beacon. No. 2 G, is situated opposite the closed channel about one mile N. 31° E, from the Reflecting beacon. The remaining beacons are placed opposite the beacon of the corresponding number on the other side of the channel.

The red light on the beacon situated 13 cables N. 35° E. from the Reflecting beacon

would, on the 1st June, be discontinued.

The dredged channel is now marked throughout by red beacons exhibiting white fixed lights on the starboard hand on entering, and black beacons exhibiting green fixed lights on the port hand.

Approximate position, Reflecting beacon, lat. 34° 473′ S., long. 138° 284′ E.

(Variation 5° Easterly in 1906.)

This Notice affects the following Admiralty Chart: - Port Adelaide, No. 1750. Also, List of Lights, Part VI, 1906, page 206; and Australia Directory, vol. I, 1897, page 352.

STRAITS SETTLEMENTS-SINGAPORE, EASTERN APPROACH, MIDDLE CHANNEL.

Lima islands - Shoal reported south-east of -.

No. 297 (second publication).—The British Admiralty has given notice (No. 769 of 1906) that the Master of the S.S. Fallodon reports that his vessel struck on a reef, with a depth of 3 fathoms over it, when at a distance of about 6 cables south-eastward from Stork reef, Lima islands, in approximately lat. 1° 21½′ N., long. 104° 19½′ E.

P.D. has been placed against this shoal on the chart.

Mariners are recommended to give these islands a wide berth.

This Notice affects the following Admiralty Charts:—Banka strait to Singapore, No. 2757; approaches to Singapore, No. 3543; Singapore to Tioman island, No. 2041; Singapore strait, No. 2403: Also, China Sea Directory, vol. I, 1896, page 237.

AUSTRALIA, NORTH-WEST COAST-KING SOUND.

Sunday strait-Shoal reported.

No. 298 (second publication).—The British Admiralty has given notice (No. 770 of 1906) that a reef, with a depth of about one foot over it at low water, is reported to exist in Sunday strait, King sound, in approximately lat. 16° 27½ S., long. 123° 16½ E. "Reported 1906" has been placed against this shoal on the charts. This position, for which no bearings are furnished, might be identical with Amur reef, which is placed on the chart approximately.

This Notice affects the following Admiralty Charts:—Buccaneer archipelago to Bedout island, No. 1048; Hall point to care Bertholet, No. 1052: Also, Australia Directory, vol. III, 1905, page 192.

EASTERN ARCHIPELAGO-SUMATRA, NORTH COAST.

Pulo Bras group--Dangers in the vicinity.

No. 299 (second publication).—The British Admiralty has given notice (No. 774 of 1906) of the existence of the undermentioned dangers, and the non-existence of another, in the vicinity of the Pulo Bras islands, as follows:-

(1) Lampujang strait. The shoals at the western entrance to this strait, off the north-western point of Nasi Besar, extend about half a cable further out than shown on the chart. There is a depth of 3½ fathoms on this extension.

At a distance of 4 to cables S. 75° W. from the south point of Pulo Bras is the southeastern extremity of a ridge, which extends from this position $4\frac{4}{10}$ cables in a north-westerly direction, having a breadth of about four-tenths of a cable. The least depth found on this ridge was $2\frac{1}{2}$ fathoms at low-water springs.

Approximate position, Pulo Bras, south point, lat. 5° 39½' N., long. 95° 10½' E.

303

(2) Gepon islets. The reef extending to the southward from these islets does not

Approximate position, lat. 5° 36' N., long. 95° 5' E.

(3) The least depth on the shoal of 4½ fathoms between Pulo Batu and Pulo Kelapa was found to be 2½ fathoms.

Approximate position, lat. 5° 33½' N., long. 95° 12¾' E.

The positions refer to chart No. 219.

(Variation 1° Easterly in 1906.)

This Notice affects the following Admiralty Chart:—Acheh head to Diamond point, with plan of Lampujang strait, No. 219: Also, China Sea Directory, vol. I, 1896, pages 43, 44.

CHINA, NORTH-YELLOW SEA-MANCHURIA.

Port Arthur or Lushan Kau approach-Shoal off Lao Lui Chui.

No. 300 (second publication).—The British Admiralty has given notice (No. 782 of 1906) of the existence of a rock, with a depth of $4\frac{1}{2}$ fathoms over it, in the approach to Port Arthur, situated in a position from which Lao Lui Chui bears N. 36° W., distant $2\frac{1}{10}$ cables. At a distance of about four-tenths of a cable north-westward from this rock there is a rocky head with a depth of $2\frac{1}{2}$ fathoms over it; there is a depth of 9 fathoms between them, and from 12 to 17 fathoms around both rocks.

Approximate position, lat. 38° 4' N., long. 121° 191' E.

(Variation 4º Westerly in 1906.)

This Notice affects the following Admiralty Charts: — Pechili strait, No. 1392; Kuangtunt peninsula, No. 1798: Also, China Sea Directory, vol. III, 1904, pages 591, 592.

CHINA, NORTH-YELLOW SEA-MANCHURIA.

Port Arthur or Lushan Kau-Wreck in approach.

No. 301 (second publication).—The British Admiralty has given notice (No. 783 of 1906) that a wreck, with a depth of 10 fathoms over the hull, lies sunk in the approach to Port Arthur, situated in a position from which the 515 foot hill south-westward of Chikwan shan bears N. 15° W., distant 140 miles, and the Port Arthur light, western side of entrance, N. 22° E. There is no mention of masts projecting in the Notice received.

Approximate position, lat. 38° 443' N., long. 121° 144' E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Charts:—Gulf of Pechili, No. 1798; Kwantung peninsula, No. 1592; Port Arthur, No. 1236: Also, China Sea Directory, vol. III, 1904, page 592.

JAPAN-GULF OF TARTARY--KARUFUTO (SAKHALIN) ISLNAD SOUTH COAST.

Kushunkotan (Korsakovsk) road—Light established—Storm signals.

No. 302 (second publication).—The British Admiralty has given notice (No. 784 of 1906) that a white fixed light, elevated 201 feet above high water, and visible in clear weather from a distance of 12 miles, has been established on a white staff, 18 feet high, in place of the former light exhibited on the hill to the northward of Kushunkotan or Korsakovsk.

Approximate position, lat. 46° 383' N., long. 142° 451' E.

A storm signal station has been established at Kushunkotan. The church, the beacons, and the mill at Kushunkotan, and the beacons at Poroan tomari (Ainskoe settlement), 1½ miles to the southward, have all disappeared.

This Notice affects the following Admiralty Chart:—Plin of Korsakovsk road on char, No. 2192: Also, List of Lights, part VI, 1906, No. 1165; and Sailing Directions for Jupan etc., 1904, pages 238, 239.

BAY OF BENGAL-CHITTAGONG COAST.

Karnafuli river - Depth of water in the channels.

No. 303 (second publication).—The Port Officer, Chittagong, has given notice that the following depth of water was found in the channels by soundings taken on the 17th August and reduced to zero :-

educed to zero .—						fT. 1	N.	
Track No. 1—Outer bar— Disc on diamond					•••	14	0	
Disc on diminor			==	::	- :::	11 12	6	
Track No. 3— Triangle on cross and ball				***	•••	20	0	
Track No. 4— Guptakhally cro- Tripod on diamond	ssing-	_				20	0	
The 26th August 1906.								

JAPAN-NAIKAI (INLAND SEA).

Shimonoseki (Simonoseki) strait, Moji shoal-Asteration in position of light-buoys.

No. 279 (third publication).—With reference to Notice to Mariners No. 309, dated 12th August 1905, issued by this office, the British Admiralty has given further notice (No. 706 of 1906) that the light-buoy, marking the north-east end of Moji shoal, situated at a distance of 6½ cables S. 73° E. from the Observation spot, Simonoseki, has been moved about half a cable N. 34° E. from its former position, and is now situated at a distance of 6½ cables S. 78° E. from the Observation spot.

Also, that the light-buoy, marking the south-west end of Moji shoal, situated at a

Also, that the light-buoy, marking the south-west end of Moji shoal, situated at a distance of 5½ cables S. 23° E. from the Observation spot, has been moved about three-quarters of a cable South from its former position, and is now situated at a distance of 6 cables S. 20° from the Observation spot.

Approximate position, Observation spot, lat. 33° 57½' N., long. 130° 56½' E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admirally Charts: - Simonoseks strait, Nos. 532 and 1578; Moji ko, No. 3114: Also Sailing Directions for Japan, 1904, page 502.

JAPAN-GULF OF TARTARY-KARAFUTO (SAKHALIN) ISLAND, WEST COAST.

Lesovskago bay-Shoal reported.

No. 280 (third publication).—The British Admiralty has given notice (No. 707 of 1906) that a shoal having a depth of 2 fathoms over it is reported to exist in Lesovskago bey, in approximately lat. 49° 14′ N., long. 142° 1′ E.

This shoal, which is composed of hard sand and mud, is one mile long in a northerly

and southerly direction and 5 cables broad, the general depths over it are from 2 to 3 tathoms and there is a depth of 4 fathoms on its southern end, but the northern end was not examined.

This Notice affects the following Admirally Charts: - Gulf of Tartary, No. 3340: Also, Sailing Directions for Jopan, &c., 1904, page 231.

KOREA, WEST COAST.

Taidong kang (Ping Yang inlet) - Extension of sand bank.

No. 281 (third publication .- The British Admiralty has given notice (No. 708 of 1906) that a sand bank, with a depth of 2 fathoms over it at low water, is reported to exist in the entrance to Taidong kang or Ping yang inlet, in a position from which the north-western point of Dau chen bears S. 56° W., distant 11 cables, and the north-eastern point of the same island S. 22° E. This sand bank appears to be connected with the line of shouls extending westward from Utt chu ra to.

Approximate position, lat. 38° 40½' N., long. 125° 0½' E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admirally Charts:—Approaches to Ping yang inlet, No. 1656: Also, Sailing Directions for Japan, &c, 1904, pages 39-41.

AUSTRALIA-NEW SOUTH WALES.

Newcastle harbour-Decreased depth in entrance.

No. 282 (third publication). - With reference to Notice to Mariners No. 439, dated 20th December 1904, issued by this office, the British Admiralty has given further notice (No. 713 of 1906 that as the depths in the fairway of the entrance to Newcastle harbour have decreased, the signals made from the Pilot station will, until further notice, indicate each foot of rise or fall above 18 feet, and not 20 feet as before.

When abreast Nobby head vessels will find rather more water to the southward of the

When abreast Nobby head vessels will find rather more water to the southward of the

leading line of the towers.

Approximate position, lat. 32° 55' S., long. 151° 48' E.

This Notice affects the following Admiralty Chart: -Newcustle harbour, No. 2119: Also Australia Directory, vol. II, 1898, page 80.

EASTERN ARCHIPELAGO-SUMATRA-MALACCA STRAIT-THE BROTHERS.

Pulo Hiju Kechil-Light established.

No. 283 (third publication) .- With reference to Notice to Mariners No. 120, dated 7th April 1906, issued by this office, the British Admiralty has given further notice (No. 715 of 1903) that a white flashing light, every twenty seconds, thus:—light, four seconds, eclipse, sixteen seconds, elevated 131 feet above high water and visible in clear weather from a distance of 17 miles, has been established in a white framework iron structure, 44 feet high, having at its base a white wooden dwelling with red tiled roof, erected on Pulo Hiju Kechil, the easternmost of the Brothers islands.

The light is of the 4th order and produced by acetylene gas.

Approximate position, lat. 1° 11½' N., long. 103° 21½' E.

This Notice affects the following Admiralty Charts:—Malacca strait, No. 1355; cape Rachado to Singapore, No. 795; approaches to Singapore, No. 3543; Singapore strait, No. 2403: also List of Lights, Part VI, 1906, page 71; China Sea Directory, vol. I, 1896, page 113; and Supplement, 1899, page 12.

CHINA, EAST COAST.

Lamock islands-Shoal westward of -. .

No. 284 (third publication) .- The following Notice to Mariners (No. 721 of 1906) issued by the British Admiralty is republished :-

Information, dated 14th May 1906, has been received from Commander E. LaT. Leatham, H.M.S. Alacrity, that when westward of Lamock islands a sounding of 6 fathoms was obtained from on board his vessel, in a position from which Sul rock bore N. 36" distant 5½ miles.

Approximate position, lat. 23° 131' N., long. 117° 103' E.

Vessels should avoid this shoal as there may be less water on it.

(Variation Nil in 1908.)

This Notice affects the following Admiralty Charts: - Hong-Kong to the Brothers, No. 1962; Namoa island, No. 1957: also China Sea Directory, vol. III, 1904, page 158.

INDIAN OCEAN -- MADAGASCAR, WEST COAST.

Tulléar bay-Shoal extending-Beacons altered.

No. 285 (third publication). - The British Admiralty has given notice (No. 724 of 1906) that the shoal off Anosi point at the mouth of the river Fiherenana is extending seaward, the shoal water now having reached the pecked line denoting the fairway. This line requires moving slightly to the westward.

The beacon westward of Anosi and the Anosi flagstaff, 6 cables to the eastward of it, have disappeared, but a wooden tripod beacon, the position of which has not been determined,

has been erected in this vicinity.

A pole beacon, surmounted by a diamond shape painted white, has been erected on the coast N. 53 W. from Table mountain. This beacon in line with Table mountain S. 53° E. leads up to the entrance of Talléar channel until Great Reef beacon bears south, whence the course should be altered as requisite.

Approximate position, Tulléar channel, lat. 23° 21' S., long. 43° 37' E.

(Variation 15° Weasterly in 1906.)

This Notice affects the following Admiralty Chart:—St. Augustine and Tulléar bays, No. 692: also Islands of the Southern Inlian Ocean, 1904, page 251.

KOREA, WEST COAST.

Amu Nyoku kan (Yalu river) - Buoys established in southern approach.

No. 286 (third publication) .-- The British Admiralty has given notice (No. 725 of 1906) that the undermentioned buoys have been established in the southern approach to Amu Nyoku kan or Yalu kiang in the following positions:-

- A black conical buoy with topmark, marked No. 1, in approximately lat. 39° 35¾ N., long. 124° 22¾ E.
- (2) A light-buoy, painted red, marked No. 2, exhibiting a contre fixed light, in approximately lat. 39° 30½′ N., long. 124° 21¾′ E.
- (3) A black conical buoy with topmark, marked No. 3, in approximately lat. 89° 45½, N., long. 124° 24½° E.
- (4) A red conical buoy with topmark, marked No. 4, in approximately lat. 39° 46′ N. long. 124° 24¾ E.
- (5) A black conical buoy, marked No. 7, in approximately lat. 39° 464' N., long. 124° 24′ E.
- (6) A black conical buoy, marked No. 9, in approximately lat. 39° 47½ N., long. 124° 23½ E.

This Notice affects the following Admiralty Charts:—Pe chili and Liau tung gulfs No. 1256; approaches to Ping Yang inlet, No. 1256: also Sailing Directions for Japan, etc. 1904, page 37; and China Sea Directory, vol. 111, 1904, page 577.

CHINA, SOUTH-EAST COAST.

Good Hope cape-Shoal to the north-eastward.

No. 287 (third publication).—The British Admiralty has given notice (No. 731 of 1906) of the existence of a rock, with a depth of $4\frac{1}{2}$ fathoms over it, situated at a distance of about 5 cables N. 75° E. from Good Hope cape light-house in the approach to Swatau. This shoal, which is about one mile in extent, is still under examination: less water may therefore be found over it.

Approximate position on chart No. 854, lat. 23° 14½' N., long. 116° 49' E.

(Variation Nil in 1906.)

This Notice affects the following Admiralty Charts: - Hong Kong to the Brothers, No. 1962; Namoa island, No. 1957; port of Swatau, No. 854: Also, China Sea Directory, vol. III, 1904, page 147.

JAPAN SEA-PETER THE GREAT BAY.

Caution-Vladivostock approach-Submarine mines.

No. 288 (third publication).—The British Admiralty has given notice (No. 737 of 1906) No. 288 (third publication).—The British Admiralty has given notice (No. 737 of 1906) that submarine mines were laid during the late war between Russia and Japan by both belligerents, extending apparently as far southward in Ussuri bay as a line joining Askold island to the Rimskago Korsakofa islands, a distance of about 40 miles. Damage has been caused to several steam-vessels approaching Vladivostock from the south-eastward by coming in contact with either fixed or drifting mines.

The Russian Government has given Notice, dated 6th June 1906, that a temporary white fixed light was established on 4th May last, in a light-house in course of construction on Cape Gamova, to assist in the navigation of the channel to Vladivostock by its western approach through Amur bay, which channel should be used until notice is issued that the eastern approach is free from danger.

Vessels, therefore, bound to Vladivostock should make cape Gamova. According to a Berlin Notice, the route thence to be followed is to pass westward of Rimskago Korsakofa, Stenin, and Tsivolko, with Popova and Kozakevicha close aboard, to the Eastern Bosporus. A fog siren would be established, probably in June, at Gamova light-house.

Approximate position lat. 42° 334' N., long. 131° 124' E.

This Notice affects the following Admiralty Charts:—Tumen Ula to Strelok bay, No. 2432; Trinity bay to Eastern Bosporus, No. 511; Ussuri bay, No. 288; Eastern Bosporus, No. 1011: Also, List of Lights, Part VI, 1906, page 189; and Sailing Directions for Japan, &c., 1904, pages 162, 177, 178.

AUSTRALIA - VICTORIA - HOBSON BAY.

Gelilbrand point light - Date of exhibition - Buoys to be withdrawn.

No. 289 (third publication). - With reference to Notice to Mariners No. 142, dated 23rd No. 289 (third publication).—With reference to Notice to Mariners No. 142, dated 23rd April 1906, issued by this Office, the British Admiralty has given further notice (No. 746 of 1906) that a pile lighthouse having been constructed in the position formerly occupied by Gellibrand light vessel, viz.,—8 cables South from the green light on the breakwater extending from Gellibrand point, Hobson bay, on and after 1st August next, an occulting light every eighteen seconds, elevated 50 feet above high water, and visible in clear weather from a distance of 12 miles, will be established in that structure It will show the following sectors:—red, fifteen seconds; eclipse, three seconds from the bearing of N. 63° E. to N. 39° E.; white, six seconds; red, three seconds; white, six seconds; eclipse, three seconds from N. 39° E, through north, to N. 33° N.; red, fifteen seconds; eclipse, three seconds from N. 33° W., through west, to S. 63° W.; white, six seconds; red, three seconds; white, six seconds; eclipse, three seconds; from S. 63° W., to South.

The undermentioned aids to navigation placed to mark the works in progress will be

The undermentioned aids to navigation placed to mark the works in progress will be

withdrawn on the same date :-

a. The light-buoy exhibiting a red fixed light mored 400 feet eastward of the lighthouse constructing.

The vessel from which rockets will be fired, during thick or foggy weather, moored 400 feet southward of the light-buoy.

white fixed light exhibited from the eastern end of the works whilst the lighthouse was under construction.

The red flag displayed when pile driving was in progress.

Approximate position, lat. 37° 524' S., long. 144° 55' E.

The exact position of the lighthouse is not stated.

(Variation 8° Easterly in 1906.)

This Notice a fects the following Admira'ty Charts:—Port Philip, No. 1171b; Hobson bay, No. 624: Also, List of Lights, part VI, 1906, No. 1320; Australia Directory, vol. I, 1897, page 459; and Supplement, 1900, page 17.

INDIA, WEST-BOMBAY COAST.

Bomlay harbour approach—Present position of wrecked Schooner No. 1.

No. 290 (third publication). With reference to Notice to Mariners No. 261, dated 25th July 1906, issued by this Office, the Bombay Government has given further notice (No. 75 of 1906) that the position of the wrecked Schooner No. 1 now is about N. E. from the Light Vessel, one mile Bearings from the wreck are -

Light Vessel S. W. (T) Malabar Point North (T). Prongs Light House N. by E. (T).

AUSTRALIA-BROADMOUNT HARBOUR.

Fitzroy river, No. 3 Lead, Middle channel-Sandbank extending southward.

No. 291 (third publication). - The Portmaster, Brisbane, has given notice (No. 4 of 1906) that the small sandbank in No. 3 Lead, Middle Channel, Fitzroy River, having grown to the southward, the depth in the centre of the Lead is now only 7 feet 6 inches. Masters are therefore recommended to keep the dolphins of this Lead open their own width to the southward, when a depth of 19 feet at low water will be obtained.

Charts affected-Nos. 345 and 363, Australia Directory, vol. 2.

AUSTRALIA-PORT WAKEFIELD APPROACH.

Gulf of St. Vincent, east side-Existence of isolated and scattered rocks-Navigation dangerous.

No. 292 (third publication).—The President of the Marine Board, Port Adelaide, has given notice (No. 12 of 1906) that isolated and scattered rocks having at various times been reported as existing on the flats between Long Spit and Bald Hill, and some of them being said to have 6 feet less water over them than is shown on the chart, masters of vessels and others are hereby warned against navigating in less water than, say, 6 feet over their draught.

These flats, for about three miles seaward from high-water mark, may be considered.

These flats, for about three miles seaward from high-water mark, may be considered

as foul ground.

This affects Admiralty Chart No. 2389 B.

AUSTRALIA-KANGAROO ISLAND.

Kingscote-Character of lights to be exhibited.

No. 293 (third publication).—The President of the Marine Board, Port Adelaide, has given notice (No. 13 of 1906) that in future the following lights will be exhibited at Kingscote, Kangaroo Island, viz.—

- (1) From a white painted house on the rise at the inner end of the jetty, a fixed white light showing to seaward over the jetty, and visible in clear weather a distance of eight (8) miles.
- (2) From a post on the outer end of the jetty, a light, showing red to seaward and white to landward over the jetty, at a height of thirteen (13) feet above H.-W., and visible in clear weather about four (4) miles.

The two lights in line lead over the Telegraph Bell Buoy, and bear from it N. 74° W. correct magnetic.

Approximate position of high light-Lat. 35° 40' S.; long. 137° 38' 30" E.

This affects Admiralty Chart No. 2389B.

The 10th August 1906.

· INDIA WEST-BOMBAY COAST.

Bombay harbour approach.—A green painted "Wreck" buoy placed.

No. 294 (third publication) .- In continuation of Notice to Mariners No. 290, dated the 10th August, issued by this office, the Bombay Government has given further notice, dated 8th idem, that a wreck buoy painted green with the word "Wreck" in white letters on its side has been placed on the East or Mid-channel side of the wreck of Pilot Schooner No. 1-From the buoy the following are True bearings:-

... N. 9½° E. ... N. 34° E. ... S. 70½° E. Prongs Light House Sunk Rock Light House ... Thull Knob Beacon

The 13th August 1906.

St. L. S. WARDEN, COMMDR., R.I.M., Port Officer of Caloutta.



APPENDIX TO

The Calcutta Gazette.

WEDNESDAY, SEPTEMBER 5, 1906.

NOTICES TO MARINERS.

THE following Notices are published for general information.

CALCUTTA, the 28th August 1906.

W. A. INGLIS, Secy. to the Govt. of Bengal.

CHINA, NORTH-MANCHURIA, SOUTH COAST.

Ta lien hwan-Limits of, and Regulations for-

No. 312 (first publication). - The British Admiralty has given notice (No. 123 of 1906) that the following regulations are in force respecting Ta lien hwan, which has been divided into the undermentioned districts:—

(a) The first district is the water area westward of an imaginary line running S. 16° W. from the eastern extremity of Liu shu tun to West Entry point.
(b) The second district is the water area included between the Eastern boundary of the first district and two imaginary lines, the first running in a N. 18° E. direction from the Eastern extreme of San shan tau to the islet on the northern side of Inner channel, and the second in a N. 87° W. direction from San shan tau light to South Entry point.

(c) The third district is the water area included between the outer lines of the second

district and the following imaginary lines: first a line running in a N. 35° E. direction from San shan tau light-house through the islet off Hooper point to Robinson point; secondly, a line running in a S. 72° W. direction from San shan tau light-house to the islet off Cap island, and, thirdly, by a line running in a N. 73° W. direction from the islet to the south-western extremity of Ping tu tau.

(d) Ta lien hwan roadstead is in. Victoria bay, and extends about one mile to the northward of Panter point.

Approximate position of San shan tau light, lat. 38° 51½' N., long. 121° 50¼' E.

- 1. Foreign vessels are prohibited from passing the outer limits of the third district without a permit from the officer in command of the Defence Corps. Junks must also obtain permission.
- 2. Vessels entering the harbour are not allowed to proceed to the roadstead, described in paragraph (d) at night time without permission of the officer in command of the Defence Corps.

Vessels are prohibited from anchoring in the entrance to Ta lien hwan without permission.

Vessels intending to enter the First or Second district when within three miles of the harbour limit must hoist their ensigns and signal their names by the International Code, and keep the flags flying until anchored Vessels leaving the harbour must hoist their ensigns and indicate their names by the same Code. At night vessels must exhibit the lights prescribed by the regulations for prevention of collisions at sea.

5. Vessels must obey the orders of the officer in command of the Defence Corps

respecting their movements and berthing.

- Vessels with infectious or contagious diseases on board which have not received pratique must stop at a distance of more than one mile from Ta lien hwan roadstead, hoist the quarantine flag, and await orders. Should disease break out on board vessels in the First or Second District, the quarantine flag must be hoisted.
- Rubbish must not be thrown overboard in the First District. 7.

Fishing and collecting seaweed is prohibited in the First and Second Districts without permission. 8.

- The undermentioned, except by authorised officers, are prohibited without permission :-
 - (a) Surveying, sketching, photographing the features of the land and water, and the publication of geographical notes or maps.
 - (b) The construction of piers or wharves, the reclamation or dredging of the foreshore; the digging of hills and grounds; the establishment of buoys, beacons or navigational marks.
- 10. The following are strictly forbidden :-

(a) To damage military building, ships of war or other vessels, or steal or damage military stores within the harbour limits.

- (b) To spy and divulge the conditions of armament, fortification in the harbour, and military matters generally.
- (c) To spread rumours, and to act to the detriment of order and discipline in the harbour.
- Violation of the above regulations renders the offender, and in the case of ships the captain or commanding officer, liable to the punishment prescribed by military penal law.

12. The officer in command of the Ta lien hwan Defence Corps is empowered to enforce these regulations by the institution of bye-laws if necessary.

(Variation 3º Westerly in 1906.)

This Notice affects the following Admiralty Chart:—Kwantung peninsula, No. 1798: also China Sea Directory, vol. III, 1904, page 586.

PACIFIC OCEAN.

The Philippine islands-Luzon, east coast-Tabako bay-Malinao - Light established.

No. 313 (first publication).—The British Admiralty has given notice (No. 131 of 1906) that a red fixed light, elevated 31 feet above high water and visible in clear weather from a distance of 9 miles from the bearing of S. 25° E., through south and west, to N. 85° W., has been established on a white wooden tripod, 19 feet high, erected on the ruins of an old fort on the beach in front of the town of Malinao, Tabako bay.

Approximate position, lat. 13° 241′ N., long. 123° 43′ E.

(Variation Nil in 1906.)

This Notice affects the following Admiralty Charts:—Molucca passage to Manila, No. 943; San Bernardino and Mindoro straits, No. 2577; Also List of Lights, purt VI, 1905, page 111; Eastern Archipelago, part I, 1902, page 381.

PACIFIC OCEAN.

The Philippine islands - Negros, east coast - Point Jilaitan - Reef to the southward.

No. 314 (first publication).—The British Admiralty has given notice (No. 132 of 1906) of the existence of a reef, with depths of from 2 to 15 feet over it, to the southward of point Jilaitan, Negros island, situated at a distance of 15½ miles S. 21° W. from Refugio island centre; this reef is about 150 yards in extent and is surrounded by deep water.

Approximate position on chart No. 2578, lat. 10° 14½' N, long. 123° 17' E.

(Variation 1º Easterly in 1906.)

This Notice affects the following Admiralty Charts: -Molucca passage to Manila, No. 943; Sulu, or Mindoro sea, No. 2578: Also Eastern Archipelago, part I, 1902, page 275.

AUSTRALIA, SOUTH-ST. VINCENT GULF.

Port Adelaide - Tidal Signals amended.

No. 315 (first publication).—The British Admiralty has given notice (No. 137 of 1906) that, on and after 6th January 1906, the tidal signals made at the Pilot signal station, Semaphore jetty, Port Adelaide, would be altered to show the depth of water above or below the depths shown on the Chart as follows:—

Form and the Chart as Ioliows.	
One ball at the south yardarm indicates	1 foot.
", north ", "	2 feet.
Two balls at the south yardarm indicates	3 "
north	4 ,,
One ball at the mastheed indicates	5 ,,
One ball at the masthead and one ball at south vard.	
arm indicates	6 ,,
One ball at the masthead and one ball at north yard-	
arm indicates	7 ,,
One ban at the masthead and two balls at south yard-	
arm indicates	8 "
One ball at the masthead and two balls at north yard-	
arm indicates	9 ,,
Two balls at the masthead indicates	10 ,,
Two balls at the masthead and one ball at south yard-	
arm indicates	11 ,,
Two balls at the masthead and one ball at north	
yardarm indicates	12 "
A cone point upwards at either yardarm indicates an	
additional	3 inches.
A diamond at either yardarm indicates an addi- tional	
A cone point downwards at either yardarm indicates	6 ,,
an additional	- 0
an additional	* 9 ,,

At low water a drum will be hoisted at the masthead. Should the water be below the level of low water, the above symbols are used, but the drum is kept up to show that the depth given must then be substracted from the depths shown on the chart.

Examples.—Two balls at the south yardarm and a cone point upwards at the north yardarm shows that 3 feet 3 inches will have to be added to the sounding on the chart to give the depth at that time. One ball at the masthead under a drum indicates that 5 feet will have to be substracted from the sounding on the chart to give the required depth.

Approximate position, lat. 34° 51' S., long. 138° 29' E.

This Notice affects the following Admiralty Chart: -- Australia, vol. I, 1897, pages 334, 335.

PACIFIC OCEAN-CHRISTMAS ISLAND, EAST POINT AND BIRNIS ISLAND.

Beacons erected.

No. 316 (first publication).—The Britith Admiralty has given notice (No. 138 of 1906) that beacons have been erected on the undermentioned islands in the Pacific:—

(a) Christmas island. —A beacon has been constructed on the east point of this island; it has been placed on the chart approximately lat. 1° 55 \(\frac{3}{4}' \) N., long. 157° 5' \(\text{W}. \)

The coast line of Christmas island is reported to be inaccurately delineated on the chart.

(b) Birnie island.—A beacon has been constructed on this island: it has been placed on the chart at a distance of 5 cables to be north-westward of its southern sandy extremity.

Approximate position, lat. 3° 35' S., long. 171° 33' W.

This Notice affects the following Admiralty Charts:—Ellice islands to Phonix islands No. 1830; Enderbury island to Christmas island, No. 3045; plan of Christmas island on chart No. 2867; plan of Birnie island on chart No. 184: Also Pacific Islands, vol. II, 1900, page 247; vol. III, 1900, page 181; and Supplement, 1903, page 12.

EASTERN ARCHIPELAGO-CELEBES, WEST COAST.

Lariang river- Shoal.

No. 317 (first publication).—The British Admiralty has given notice (No. 146 of 1906) of the existence of a reef, which dries at low water, situated in a position from which the entrance of Lariang river bears N. 70° E., distant 2 miles, and Batugeh point, N. 11° E.

Approximate position, lat. 1° 25% S., long. 119° 154 E.

(Variation 2º Easterly in 1906.)

This Notice affects the following Admiralty Charts: - Eastern Archip lago, No. 941b; strait of Makassar, No. 2637: Also Eastern Archipelayo, part II, 1904, page 320.

EASTERN ARCHIPELAGO-JAVA, NORTH COAST.

Pekalongan light-Character altered.

No. 318 (first publication).—With reference to Notice to Mariners No. 405, dated 21st October 1905, issued by this Office, the British Admiralty has given further notice (No. 147 of 1906) that the character of Pekalongan light has been altered from a white fixed to a white flashing light every three seconds, thus:—flash, one second; eclipse, two seconds.

Approximate position, lat. 6° 511'S, long. 109° 411' E.

This Notice affects the following Admira'ty Charts:—Eastern Archipelago, western portion No. 941a; island of Java, western portion. No. 1653: Also List of Lights, part VI, 1906, No. 484; and Eastern Archipelago, part II, 1904, page 105.

The 29th August 1906.

OHINA SEA-SULU ARCHIPELAGO.

Bongao island - Light altered.

No. 319 (first publication).—With reference to Notice to Mariners No. 440, dated 30th December 1904, issued by this office, the British Admiralty has given further notice (No. 817 of 1906) that a red fixed light, elevated 23 feet above high water, has been established on a beacon with concrete foundation, erected on the extremity of the reef extending from the north-eastern point of Bongao island, entrance to port Bongao, at a distance of 14 cables N. 65° W. from Matos point. The white fixed light shown on the chart at a distance of $9\frac{1}{2}$ cables N. 20° E. from the extremity of Martinez point has no existence.

Approximate position, on chart No. 2576, lat. 5° 24' N., long. 119° 461' E.

(Variation 1° Easterly in 1906.)

This Notice affects the following Admiralty Charts:—Sulu Archipelago, No. 928; Taganak to Tawi Tawi, No. 1868; Bongao anchorage, No. 1243; Sulu Archipelago and plan of port Bongao, No. 2576; Also List of Lights, part VI, 1906, No. 598; Eastern Archipelago, part I, 1902, page 134; and Supplement, 1906, page 13.

CHINA, SOUTH-EAST COAST-PORT SWATAU.

Sugarloaf channel-Non-existence of shoals.

No. 320 (first publication).—The British Admiralty has given notice (No. 818 of 1906) that a careful but unsuccessful search, both by sounding and sweeping, has been made for the two rocks in Sugarloaf channel, port Swatau, shown on the chart with depths of 2½ and 1½ fathoms over them, situated at distances of 4½ cables N. 78° W. and 7 cables N. 67° W. respectively from Sugarloaf light-house. There being nothing known about them locally, and the original authority for their appearance on the chart being unsatisfactory, it is considered that they do not exist, and they have in consequence been erased from the chart.

Approximate position, Sugarloaf light-house, lat. 23° 193′ N., long. 116° 451′ E.

(Variation Nil in 1906.)

This Notice affects the following Admirally Chart:—Port of Swatau, No. 854: Also China Sea Directory, vol. III, 1904, page 150.

CHINA SEA-SULU ARCHIPELAGO-PALAWAN, EAST COAST.

Port Princesa (Royalist) and Tai Tai - Lights discontinued.

No. 321 (first publication).—The British Admiralty has given notice (No. 819 of 1906) that the red fixed light formerly shown on the outer end of the Obando mole, puerto Princesa, has been discontinued.

Approximate position, lat. 9° 44½' N., long. 118° 42½' E.

Also that the white fixed light formerly shown on the fort at Tai Tai has been discontinued.

Approximate position, lat. 10° 50' N., long. 119° 30' E.

This Notice affects the following Admiralty Charts: - China sea, No. 2660b; Palawan island, No. 967; port Royalist, No. 2914: Also List of Lights, part VI, 1906, Nos. 595, 596; and China Sea Directory, vol. II, 1899, pages 272, 283; and Supplement, 1901, page 8.

CHINA-YANG TSE KIANG, NORTH CHANNEL.

Drinkwater point - Light and light-buoy replaced by light-vessel.

No. 322 (first publication).—With reference to Notice to Mariners No. 268, dated 27th July 1906, issued by this office, the British Admiralty has given further notice (No. 822 of 1906) that on or about July 1st a light-vessel, exhibiting a white occulting dioptric light every ten seconds, thus:—light, five seconds; eclipse, five seconds, would be established in a position about 3 miles N. 83° W. from Drinkwater point light and bell-buoy; the light, which is of the 4th order, is elevated 35 feet above the sea, and visible in clear weather from a distance of 11 miles; the vessel is iron, painted red, marked "Drinkwater point," and has an iron column surmounted by the lantern. During thick or foggy weather a bell will be struck once every fifteen seconds.

Approximate position, lat. 34° 24½' N., long. 121° 56½' E.

Should this light-vessel be out of position, the light will not be exhibited, but a ree fixed light will be shown from each end of the vessel at night, and a red flag diplayed by day.

On the establishment of the above light-vessel, the white group flashing light on Drinkwater point, and Drinkwater point light and bell-buoy would be discontinued.

(Variation 2º Westerly in 1906.)

This Notice affects the following Admirally Charte. -Kueshan ; ands to Yang tse Kiang, No. 1199; approaches to the Yang to Zang, No. 1602: Als List of Lights, part VI, 1906, page 183. No. 812.

AFRICA, EAST COAST-SOMALILAND.

Athelet (Itala) anchorage - Beacons erected.

No. 323 (first publication).—The British Admiralty has given notice (No. 823 of 1906) that two leading beacons have been erected to the northward of Athelet in the following positions:

 (a) A pyramidal wooden beacon, painted black, elevated 115 feet above high water, on White hill, at a distance of 13 mile N. 23° E. from La Garesa.
 (b) A rectangular beacon, supported by two poles at a distance of 2 cables S. 43° E. from the above.

These two beacons in line N. 43° W. lead to the northern anchorage.

Approximate position of La Garesa, lat. 2° 451' N., long. 46° 184' E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Chart:—Plan of Athelet anchorage on chart No. 671: Also Africa Pilot, part III., 1905, page 523.

EASTERN ARCHIPELAGO-JAVA, EAST COAST-BALL STRAIT.

Banjuwangi light-Character altered.

No. 324 (first publication).—With reference to Notice to Mariners No. 227, dated 26th June 1906, issued by this office, the British Admiralty has given further notice (No. 828 of 1906) that on 24th June last the white fixed light at Banjuwangi was replaced by a white flashing light every fifteen seconds, thus:—flash, three seconds; eclipse, twelve seconds. The light is of the 6th order and produced by acetylene gas.

Approximate position, lat. 8° 12½ S., long. 114° 22¾ E.

This Notice affects the following Admiralty Charts:—Australia, northern portion, No. 2759a; Eastern Archipelago, No. 941b; Java, eastern portion, No. 1654; plan of Bali strait on chart No. 934; plan of Banjuwangi on chart No. 932: Also List of Lights, part VI, 1906, No. 508; and Eastern Archipelago, part II, 1904, page 144.

AUSTRALIA, SOUTH-TASMANIA, NORTH COAST.

Hunter passage-Dangers in approach.

No. 325 (first publication).—The British Admiralty has given notice (No. 831 of 1906 of the existence of the undermentioned dangers in the approaches to Hunter passage, on the north coast of Tasmania :-

(1) A rock, with a depth of 18 feet over it at low water, situated in a position from which the north-west point of Hunter island bears S. 76° E., distant 7 cables, and cape Keraudren N. 32° E.

Approximate position, lat. 40° 28½ S., long. 144° 42' E.

A rock, which dries one foot at low water, is situated half a mile S. 20° E. from the above.

(2) A rock, with a depth of 10 feet over it at low water, is situated in a position from which the northern extremity of Steep island bears S. 76° W., distant 1.0 miles, and Delius island S. 4° E.
(3) A shoal of sand, with a least depth of 1½ fathoms over it extends to the eastward of the north-eastern Petrel island. The eastern extremity of this shoal, as defined by the 3-fathom contour line, is situated in a position from which the north-eastern Petrel island bears N. 85° W., distant 3½ miles, and the eastern extremity of Three Hummock island N. 21° W.; the northern edge of the same shoal, which is steep-to, is situated with the north-eastern Petrel of the same shoal, which is steep-to, is situated with the north-eastern Petrel island bearing S. 60° W., distant $1\frac{1}{2}$ miles, and the eastern extremity of Three Hummook island N. 8° W. The eastern edge of the 5-fathom contour line is situated at a distance of $5\frac{1}{2}$ miles S. 75° E. from the north-eastern Petrel island Petrel island.

Approximate position, north-eastern Petrel island, lat. 40° 334' S., long. 144° 57' E.

(Variation 8° easterly in 1906.)

This Notice abots the following Admiralty Charts:—Bass strait, No. 1695b; Hunter passage, No. 3412: Ano Australia Director, and I. 1897, pages 636, 634, 632.

AUSTRALIA, SOUTH-TASMANIA, NORTH COAST.

Port Stanley-Breakwater and Pier Head light.

No. 326 (first publication).—The British Admiralty has given notice (No. 832 of 1906) that a breakwater has been constructed at Port Stanley, extending from the south side of Circular head in a S. 10° E. direction for a distance of 643 feet. There is a depth of 29 feet at the outer end and 15 feet at the inner end at low-water springs.

A white fixed lantern light is exhibited 214 feet from its outer end and a similar light

at its inner end; both these lights are stated to be obscure from seaward, but visible over

Also, that a pier, with a T-shaped head, has been constructed at a distance of 250 yards westward from the breakwater; it extends from the shore in a S. 7° E. direction from a distance of 304 feet. There is a depth of 22 feet at the eastern end of the head and 19 feet at the western.

A fixed light, showing red seaward from the bearing of S. 36° W., through west, to N. 54° W., and white in other directions, is exhibited from the eastern head.

A green fixed light is also shown from a small jetty to the westward of the above pier.

Approximate position, lat. 40° 45% S., long. 145° 19% E.

(Variation 8° Easterly in 1906.)

This Notice affects the following Admiralty Charts :- Bass strait, No. 1695b : Also List of Lights, part VI, 1906, page 261; and Australia Directory, 1897, vol. I, page 628.

EASTERN ARCHIPELAGO-Borneo, NORTH-WEST COAST.

Great Natuna island-Shoals in the vicinity.

No. 327 (first publication).—The British Admiralty has given notice (No. 839 of 1906) of the existence of the undermentioned dangers in the vicinity of Great Natura island in the following positions:-

- (1) A coral reef, with a least depth of $2\frac{1}{2}$ fathoms over it, situated at a distance of $2\frac{1}{10}$ miles S. 22° W. from Semione island. This reef is about 2 cables in extent.
- (2) A coral reef, with a least depth of 5 fathoms over it, situated at a distance of $3\frac{1}{10}$ miles N. 17° E. from Semione island. This reef is about 2 cables in extent.

Approximate position, Semione islan 1, lat. 4° 31' N., long. 107° 424" E.

(3) A small coral reef, with a least depth of $1\frac{1}{2}$ feet over it, situated at a distance of $4\frac{1}{2}$ miles N. 82° E. from the south-eastern point of Great Natura island.

Approximate position, lat. 3° 40' N., long. 108° 20' E.

There is another reef, with a least depth of 5 fathoms over it, situated at a distance of 3₁₀ miles N. 44° E. from the above (3).

(4) The Postillon (Eliphinstone) rocks consist of two rocks, the southernmost being the largest. A reef, with general depths on it of from 8 to 11 fathoms, extends from the largest rock for $1\frac{1}{2}$ miles in a northerly direction, $2\frac{1}{2}$ miles in an easterly direction, $1\frac{1}{2}$ miles in a southerly direction and 1 mile in a westerly direction, but shoal heads of $4\frac{1}{2}$ fathoms exist, situated respectively about $1\frac{1}{2}$ miles N. 25° W. and $2\frac{1}{2}$ miles S. 25° E. from the largest rock.

Approximate position, Postillon or Elphinstone rocks, lat. 3° 22¼′ N., long. 107° 50½′ E.

(Variation 2º Easterly in 1906.)

This Notice affects the following Admiralty Charts: - China sea, No. 2660a; Natuna islands, No. 1348: Also China Sea Directory part II, 1899, pages 87, 86, 84.

The 31th August 1906.

BAY OF BENGAL-SINGAPORE STRAIT.

Coney island-Raffles light altered.

No. 328 (first publication).—The Master Attendant, Singapore, has given notice, dated 24th August 1906, that on and after 24th September, Raffles light (1° 10′ N. 103° 44½″ E.) Coney island, will be altered to a group-flashing white, showing groups of three flashes in quick succession, every 10 seconds.

BAY OF BENGAL-MALABAR COAST.

Cochin harbour-Bar, Spit and Quarantine Buoys replaced in position.

No. 329 (first publication).—With reference to Notice to Mariners No. 175, dated 18th May 1906, issued by this Office, the Officiating Presidency Port Officer, Madras, has given further notice (No. 18 of 1906) that the Bar, Spit and Quarantine Buoys at Cochin will be replaced in position on the 15th September 1906.

BAY OF BENGAL-MALABAR COAST.

Mallipuram-Light discontinued.

No. 330 (first publication) — With reference to Notice to Mariners No. 175, dated 18th May 1906, issued by this Office, the Officiating Presidency Port Officer, Madras, has given further notice (No. 18 of 1906) that the light at Mallipuram will be discontinued after the 30th September as usual.

The 3rd September 1906.

AFRICA, NORTH EAST-RED SEA.

Shoal reported.

No. 304 (second publication).—The Bombay Government has given notice (No. 82 of 1906) that the Master of S. S. Africa reported that on 26th July 1906, the ship, was observed in shoal water and on sounding obtained 2 fathoms on the following bearings:—

N. W. Point Ras Mujamela Island N. 27¼° E. (T). Extreme South Point of above Island S. 78° E. (T).

Soundings obtained from 11 fathoms, gradually increasing to the eastward up to 4 and 5 fathoms.

Approximate position— Latitude 14:33½ N. Longitude 42:52½ E.

This notice affects the following Admiralty Charts:—Red Sea (General Chart), No. 2523 Red Sea, Sheet V, No. 8E; and Jabet Teir to Perim Island, No. 143; also Red Sea and Gulf of Aden Pilot, fifth edition, 1900, page 337.

AFRICA, NORTH-EAST-GULF OF A.DEN.

Aden anchorage-Channel buoys.

No. 305 (second publication).—The Bombay Government has given notice (No. 83 of 1906) that on the 20th August 1906, the three Port hand Channel buoys in the inner harbour of Aden will be moved and relaid on the following bearings:—

8.6	###		G FEIO TA (TI) O5 words
1.	Western buoy-from old position	• • • •	S. 554° E. (T) 25 yards.
	Ras Marbut Flagstaff	//**	S. 40° E. (T).
	Residency Flagstaff	1000	S. 1780 E. (T).
	Clock Tower	***	S. 78% E. (T).
	Flaostaff Tarshein Point	•••	S. 2° E. (T).
	Quarantine Island Flagstaff	405	N. 83½° E. (T). S. 17½° W. 110 yards.
2.	Centre buoy—from old position	•••	B. 1/2 W. 110 yards
	Ras Marbut Flagstaff	•••	S. 810 W. (T).
	Clock Tower	***	S. 64° E. (T). S. 21 ⁸ ° E. (T).
	Signal Station Flagstaff	•••	N. 88° E. (T).
	Quarantine Island Flagstaff	•••	, N. 66 H. (1).

3. Eastern buoy—from old position ... South (T) 67 yards.
Ras Marbut Flagstaff ... S. 39½° W. (T).
Clock Tower ... S. 27° W.(T).
Signal Station Flagstaff ... S. 10° W. (T).
Quarantine Island Flagstaff ... S 80½° E. (T).

This notice affects the following Admiralty Charts:—Gulf of Aden, Sheet II, Western portion No. 6C; Aden and adjacent bays. Aden Anchorage, No. 7; Red Sea, Sheet V, No. 8E; and Arabian Sea, No. 1012; and Red Sea and Gulf of Aden Pilot, fifth edition, 1900, page 350, and Supplement, 1904, relating to Red Sea and Gulf of Aden Pilot, page 39.

NEW ZEALAND-NORTH ISLAND, WEST COAST.

Kaipara bar-Additional beacon erected.

No. 306 (second publication).—With reference to Notice to Mariners No. 198, dated 10th June 1905, issued by this office, the British Admiralty has given further notice (No. 790 of 1906) that the front of the two beacons erected on the North Head, Kaipara harbour, being difficult to distinguish, a middle and larger beacon, 42 feet high, has been erected at a distance of $1\frac{2}{10}$ cables N. 52° E., from the front beacon. The heights of the beacons are—front beacon 32 feet, middle beacon 44 feet, rear beacon 42 feet. These beacons in line N. 52° E. lead over the bar.

Approximate position, lat. 36° 28' S., long. 174° 8½' E.

(Variation 13° Westerly in 1906.)

This Notice affects the following Admiralty Chart: - Kaipara harbour, No. 2614: - Also New Zealand Pilot, 1901, page 244; and Supplement, 1903, page 24.

INDIA, SOUTH-CEYLON, WEST COAST.

Colombo harbour-Northern passage open.

No. 307 (second publication).—The British Admiralty has given Notice (No. 791 of 1906) that the northern entrance between the North-east and North-west breakwaters, Colombo harbour, is open for the passage of vessels.

Further Notice will be given when information respecting the lighting of this passage

has been received.

Approximate position, lat. 6° 58' N., long. 79° 51' E.

This Notice affects the following Admiralty Chart:—Colombo harbour, No. 914: Also West Coast of Hindustan Pilot 1898, page 95; Supplement, 1903, page 5; Bay of Bengal Pilot, 1901, page 73; and Supplement, 1903, page 1.

AFRICA, EAST COAST-TANGA HARBOUR.

Lights estalished.

No. 308 (second publication).—The British Admiralty has given notice (No. 798 of 1906) that a green fixed light is exhibited from the flagstaff in front of the Custom House, Tanga.

Approximate position of Custom House on chart No. 663, lat. 5° 4½ S., long. 39° 6½ E.

Also, that two white fixed lights are exhibited from two iron poles situated at each extremity of the iron pier.

This Notice affects the following Admiralty Charts: - Mansa and Tonga bays, No. 663: Also, Light of Lights Part VI, 1906, page 13; and Africa Pilot, Part III, 1905, page 456.

PACIFIC OCEAN, SOUTH-New CALEBONIA.

Port Noumea approach—Beacon disappeared.

No. 309 (second publication).—The British Admiralty has given notice (No. 805 of 1906) that the iron beacon on the westernmost of the Four Northern banks, port Noumea approach, formerly situated about 7½ miles S. 40° E. from port Noumea flagstaff, has disappeared.

Approximate position of flagstaff, lat. 22° 164' S., long. 166° 264' E.

(Variation 10° Easterly in 1906.)

This Notice affects the following Admiralty Charts:—Uen island to St. Vincent bay, No. 2907; approaches to port Noumea, No. 2069: Also Pacific Islands vol. II, 1900, page 310.

CHINA, EAST COAST-FUCHAU.

Min river-Rock reported in approach.

No. 310 (second publication).—The British Admiralty has given notice (No. 810 of 1906) that a rock, with a depth over it of $1\frac{1}{2}$ fathoms at low-water springs, is reported to exist in the approach to the river Min, situated at a distance of 11 cables N. 10° W. from the summit (295 feet) of Chingau island. No bearings are given: the position therefore must be considered approximate.

Approximate position, lat. 26° 15%' N., long. 119° 59½' E.

(Variation 1º Westerly in 1906.)

This Notice affects the following Admiralty Charts:—Ocksev island to Tung yung No. 1761; River Min, No. 2400: Also China Sea Directory, vol. III, 1904, page 269.

JAPAN-KIUSIU, WEST COAST.

Nagasaki harbour-Shoal in approach-Beacon disestablished-Colour of buon.

No. 311 (second publication).—The British Admiralty has given notice (No. 813 of 1906) of the existence of a shoal, with a dep of 5½ fathoms over it, in the southern approach to Nagasaki harbour, situated in a position from which Kajikake beacon bears S. 38° W., distant 1½ cables, and the northern end of Goroye shima S. 76° E.

Approximate position, lat. 32° 41³/₄′ N., long. 129° 49¹/₅′ E.

Also, that the beacon marking Minage zaki, Nagasaki harbour, has been removed.

Note.—On certain copies of Admiralty Chart No. 2815 the colour of the buoy marking Osone, situated about 6 cables S. 28° E. from Nezumi jima, is shown as red, instead of red and black horizontal bands.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Charts:—Nagasaki harbour, Nos. 2415 and 2815: Also Sailing Directions for Japan, &c., 1904, pages 550, 551, 552.

BAY OF BENGAL-CHITTAGONG COAST.

South Patches light-vessel placed in position.

No. 295 (third publication).—In continuation of Notice to Mariners No. 26, dated the 12th January 1906, issued by this office, the Port Officer, Chittagong, has given further notice that the South Patches light-vessel was placed in position on the 15th August.

AUSTRALIA, SOUTH-PORT ADELAIDE RIVER.

Dredged channel-Light beacons established.

No. 296 (third publication).—With reference to Notice to Mariners No. 242, dated the 3rd July 1906, issued by this office, the British Admiralty has given further notice (No. 762 of 1906) that the erection of light beacons on the port side of the dredged channel when entering Port Adelaide river has been completed. These beacons are painted black, each exhibiting fixed light showing green over the channel and white towards the shore. They

are marked G and numbered 0 to 9, commencing from seaward. Each beacon stands 15 feet clear of the channel. No. 0 G. is placed about 3\frac{3}{4} cables S. 58\circ W. from the Reflecting beacon at the entrance to the channel. No. 1 G. is about a quarter of a cable S. 51\circ W. from the Reflecting beacon. No. 2 G. is situated opposite the closed channel about one mile N. 31\circ E. from the Reflecting beacon. The remaining beacons are placed opposite the channel. beacon of the corresponding number on the other side of the channel.

The red light on the beacon situated 13 cables N. 35° E. from the Reflecting beacon would, on the 1st June, be discontinued.

The dredged channel is now marked throughout by red beacons exhibiting white fixed lights on the starboard hand on entering, and black beacons exhibiting green fixed lights on

Approximate position, Reflecting beacon, lat. 34° 473′ S., long. 138° 284′ E.

(Variation 5º Easterly in 1906.)

This Notice affects the following Admiralty Chart: -Port Adelaide, No. 1750. Also, List of Lights, Part VI, 1906, page 206; and Australia Directory, vol. I, 1897, page 332.

STRAITS SETTLEMENTS-SINGAPORE, EASTERN APPROACH, MIDDLE CHANNEL.

Lima islands - Shoal reported south-east of -.

No. 297 (third publication).—The British Admiralty has given notice (No. 769 of 1906) that the Master of the S.S. Fallodon reports that his vessel struck on a reef, with a depth of 3 fathoms over it, when at a distance of about 6 cables south-eastward from Stork reef, Lima islands, in approximately lat. 1° 21½′ N., long. 104° 19½′ E.

P.D. has been placed against this shoal on the chart.

Mariners are recommended to give these islands a wide berth.

This Notice affects the following Admiralty Charts:—Banka strait to Singapore, No. 2757; approaches to Singapore, No. 3543; Singapore to Tioman island, No. 2041; Singapore strait, No. 2403: Also, China Sea Directory, vol. I, 1896, page 237.

AUSTRALIA, NORTH-WEST COAST-KING SOUND.

Sunday strait-Shoal reported.

No. 298 (third publication).—The British Admiralty has given notice (No. 770 of 1906) that a reef, with a depth of about one foot over it at low water, is reported to exist in Sunday strait, King sound, in approximately lat. 16° 27½ S., long. 123° 16½ E. "Reported 1906" has been placed against this shoal on the charts. This position, for which no bearings are furnished, might be identical with Amur reef, which is placed on the chart

This Notice affects the following Admiralty Charts:—Buccaneer archipelago to Bedout island, No. 1048; Hall point to cape Bertholet, No. 1052: Also, Australia Directory, vol. III, 1905, page 192.

EASTERN ARCHIPELAGO-SUMATRA, NORTH COAST.

Pulo Bras group--Dangers in the vicinity.

No. 299 (third publication).—The British Admiralty has given notice (No. 774 of 1906) of the existence of the undermentioned dangers, and the non-existence of another, in the vicinity of the Pulo Bras islands, as follows:—

(1) Lampujang strait. The shoals at the western entrance to this strait, off the north-western point of Nasi Besar, extend about half a cable further out than shown on the chart. There is a depth of 3½ fathoms on this extension.

At a distance of 4 to cables S. 75° W. from the south point of Pulo Bras is the southeastern extremity of a ridge, which extends from this position $4\frac{4}{10}$ cables in a north-westerly direction, having a breadth of about four-tenths of a cable. The least depth found on this ridge was $2\frac{1}{2}$ fathoms at low-water springs.

Approximate position, Pulo Bras, south point, lat. 5° 39½' N., long. 95° 10½' E.

(2) Gepon islets. The reef extending to the southward from these islets does not exist.

Approximate position, lat. 5° 36' N., long. 95° 5' E.

(3) The least depth on the shoal of 4½ fathoms between Pulo Batu and Pulo Kelapa was found to be 2½ fathoms.

Approximate position, lat. 5° 33½' N., long. 95° 12½' E.

The positions refer to chart No. 219.

(Variation 1° Easterly in 1906.)

This Notice affects the following Admiralty Chart: -Acheh head to Diamond point, with plan of Lampujang strait, No. 219: Also, China Sea Directory, vol. I, 1896, pages 43, 44.

CHINA, NORTH-YELLOW SEA-MANCHURIA.

Port Arthur or Lushan Kau approach-Shoal off Lao Lui Chui.

No. 300 (third publication).—The British Admiralty has given notice (No. 782 of 1906) of the existence of a rock, with a depth of $4\frac{1}{2}$ fathoms over it, in the approach to Port Arthur, situated in a position from which Lao Lui Chui bears N. 36° W., distant $2\frac{1}{10}$ cables. At a distance of about four-tenths of a cable north-westward from this rock there is a rocky head with a depth of 21 fathoms over it; there is a depth of 9 fathoms between them, and from 12 to 17 fathoms around both rocks.

Approximate position, lat. 38° 4' N., long. 121° 19½' E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Charts: - Pechili strait, No. 1392; Kuangtunt peninsula, No. 1798: Also, China Sea Directory, vol. III, 1904, pages 591, 592.

CHINA, NORTH-YELLOW SEA-MANCHURIA.

Port Arthur or Lushan Kau-Wreck in approach.

No. 301 (third publication).—The British Admiralty has given notice (No. 783 of 1906) that a wreck, with a depth of 10 fathoms over the hull, lies sunk in the approach to Port Arthur, situated in a position from which the 515 foot hill south-westward of Chikwan shan bears N. 15° W., distant 140 miles, and the Port Arthur light, western side of entrance, N. 22° E. There is no mention of masts projecting in the Notice received.

Approximate position, lat. 38° 443′ N., long. 121° 14½′ E.

(Variation 4° Westerly in 1906.)

This Notice affects the following Admiralty Charts: — Gulf of Pechili, No. 1798; Kwantung peninsula, No. 1392; Port Arthur, No. 1286: Also, China Sea Directory, vol. III, 1904, page 592.

JAPAN-GULF OF TARTARY-KARUFUTO (SAKHALIN) ISLNAD SOUTH COAST.

Kushunkotan (Korsakovsk) road—Light established—Storm signals.

No. 302 (third publication).—The British Admiralty has given notice (No. 784 of 1906) that a white fixed light, elevated 201 feet above high water, and visible in clear weather from a distance of 12 miles, has been established on a white staff, 18 feet high, in place of the former light exhibited on the hill to the northward of Kushunkotan or Korsakovsk.

Approximate position, lat. 46° 383' N., long. 142° 451' E.

A storm signal station has been established at Kushunkotan. The church, the beacons, and the mill at Kushunkotan, and the beacons at Poroan tomari (Ainskoe settlement), 11 miles to the southward, have all disappeared.

This Notice affects the following Admiralty Chart:—Plan of Korsakovsk road on char, No. 2192: Also, List of Lights, part VI, 1906, No. 1165; and Sailing Directions for Japan etc., 1904, pages 238, 239.

BAY OF BENGAL-CHITTAGONG COAST.

Karnafuli river-Depth of water in the channels.

No. 303 (third publication).—The Port Officer, Chittagong, has given notice that the following depth of water was found in the channels by soundings taken on the 17th August and reduced to zero:—

				CT. I	N.
Track No. 1—Outer bar— Disc on diamond			Karana	 14	0
Track No. 2—Inner bar— Disp on diamond Batten beacon on pillar		::		 11 12	6
Track No. 3— Triangle on cross and ball				 20	0
Track No. 4—Guptakhally cro Tripod on diamond	ssing—	•••		 20	0
The 20th August 1906.					

St. L. S. Warden, Commdr., R.I.M., Port Officer of Calcutta.